

Diamond Alkali Co. NJD980528996 8.1.2 Passaic Valley Sewerage Commissioners

Passaic Valley Sewerage Commissioners Response to Request for Information USEPA, Region 2

Item No. 9
PVSC Monitoring Report/1993

Document order #28

Page 1 of 1

MONITORING REPORT - TRANSMITTAL SHEET

NUPDES NO.

REPORTING PERIOD

MO. YE.

O. YR.

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0 1 9 3 THRU 0 1 9 3

PERMITTEE:	Name	Passaic	Valley Sewerag	ge Commission	ners		
Address 600 Wilson Avenue							
		Newark,	New Jersey 071	105			
	-						
FACILITY:	Name	Passaic	Valley Sewera	ge Commission	ers		
	Address _	600 Wils	on Avenue				
	_	Newark,	N.J. 07105	(County)	Essex		
	Telephone	(201)	344-1800				
					reporting period l reporting period l		
FORMS ATTACH	ED (Indica	ate Quantity o	of Each)	OPERAT	ING EXCEPTIONS		
SLUDGE REPORTS	- SANITAR	Y	· .			YES	NO
1 T-VWX-007	1 T-	-vwx-008 [1 T-VWX-009	DYE TES	TING		
* SLUDGE REPORTS	**	IAL	*	TEMPOR	ARY BYPASSING		
T-VWX-010	<u> </u>	-VWX-010B		DISINFE	TION INTERRUPTION		
		V V V V - 0 100		MONITOR	ING MALFUNCTIONS		
WASTEWATER REP		۳		UNITS OL	T OF OPERATION		
T-VWX-011	T-	VWX-012	T-VWX-013	OTHER			
GROUNDWATER RE	EPORTS			(Detail at	y "Yes" on reverse side		
WX-015(A	,B)	WX-016	VWX-017	in appro	oriate space.)		
NPDES DISCHARGE	MONITOR	ING REPORT		NOTE: 1	The "Hours Attended at Pl	lant" on t	he
EPA FORM	3320-1			reverse of	this sheet must also be co	mpleted.	
AUTHENTICATIO	infor of the subm	mation subrose individus interestination in the contraction in the con	mitted in this doc lals immediately r nation is true, acc	ument and all a responsible for our attention and composite and composit	ally examined and am intrachments and that, to btaining the informational lam aware that and the possibility of find	based on ion, I be there ar	nmy inquiry elieve the e significant
LICENSED OPERA	ATOR			- · · · - · · · - · · · ·	ECUTIVE OFFICER or	'E	
Name (Printed)	Phil H	abrukowic	h	Name (Printed)	Carmine T. Perr	apato	
Grade & Registry N	lo, NJ	S-4 #397	2	Title (Printed)	Executive Direc	tor	
Signature	4)	aldrid	\	Signature	arouse T.	1-em	gate 30
Date2	124/9	<u>. </u>	46430002	te	3/35/13		

Passaic Valley Sewerage Commissioners

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

ROBERT M. BURKE, JR. THOMAS J. CIFELLI DOMINIC W. CUCCINELLO RAYMOND LUCHKO FRANK ORECHIO DONALD TUCKER COMMISSIONERS

600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951

CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

> GABRIEL M. AMBROSIO CHIEF COUNSEL

> > LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

T-VWX-007 5/89

New Jersey Department of Environmental Protection Division of Water Resources

	DOMESTIC DISCHARGE PERMIT N	WASTEWAT	ER SLUDGE RTING PERIOD	REPORTI		
	0 0 2 1 0 1	6 0 1	Yr.	CATEGO 5	1	Page 2 of 2
1	assaic Valley Sewerage CATEGORY INFO					····
1. Permitted Wast		(MGI))	A1:		3 3 0 0
2. Industrial Conri		,	influent)	A2:		1 8
3. Average Daily		,	ons/Day)	A3:		2 2 5 8
B. INFORMATION (ON SLUDGE PRODUC	ED IN TREATME	NT PROCESS			
1. Average Total S			y weight)	B1:		4 5 0
2. Average Daily S	-	•	ons/Day)	B2:	3	9 1 9 3
3. Average Daily S	Sludge Production	(Dry	Tons/Day	В3:		7 3 5 4
**C. INFORMATION	ON ON SLUDGE F	REMOVED FOR	RULTIMATE			
1. Complete ONLY	If Liquid Sludge Is Remo		• • •	C1.		
a. Total Solids	of Liquid Sludge	•	y weight)	C1:	1 1 1	
_	ly Sludge Removal	•	ons/Day	C2:		
-	Y If Dewatered Sludge Is I			C2.		1 1 5 0
	of Dewatered Sludge	(% D)	weight)	C3:		41 9 0
·	NE of the following:	(Calle	(D)	C4:	1 1 1	
	Daily Sludge Removal	-	ons/Day)	•	<u> </u>	
	olids of 2.b.i.	· -	weight)	C5:	1 1 1	
	Daily Sludge Removal		Cu. Yds/Day)	C6:		1 6 2 2
	Daily Sludge Removal	•	Tons/Day)	C7:		1 6 3 3
_	Daily Sludge Removal	•	Tons/Day)	C8:		7 3 5 4
4. pH of Sludge Re			dard Units)	C9:		1 0 9
	JDGE MANAGEME HAULER	ENT SITE (See (Codes on Reverse)			
	REGISTRY	FACILI	TY/OPERATION		PI	ERMIT NO.
5 1	7 2 4 4 0	UT OF	SITIAITIEL			
E. PATHOGEN RE	EDUCTION INFOR	MATION (See C	odes and Complete	Reverse)		
METHOD CODE	FACILITY/OPERA	ATION	PERMIT	NO.	F	FOR DEP USE ONLY PSRP PFRP
	AISISIAIICI VI	ALLLEY	0 0 2 1	0116		
OFFICIAL ST						
CERTIFICATE OF			ANA TA	7/	A)	
Arthur A.Martinelli Name of Authorized Agent		Chemist	Signature	Marline		_FEB 25, 1993 Date
Laboratory Name: Pa	assaic Valley Sewerage	Commissioners	Cert No. 07250			

946430004

n	
PATHOGEN REDUCTION METHOD CODE	(Appropriate sections must be completed)
A. Anaerobic Digestion; or B. Aerobic Digestion; complete the following:	
1. Percent Volatile Solids:	UNIT 1 UNIT 2 UNIT 3
a. Before Stabilization (as weight % of TS)	
b. After Stabilization (as weight % of TS)	
c. Percent Reduction (see equation)	
2. Detention Time (Days)	
3. Average Temperature (Degrees C)	
C. Air Drying (Report on any beds emptied for the report	ort period)
BED DATE SLUDGE LOADED	DEPTH POURED DATE SLUDGE REMOVED
Month Day Year	Inches Month Day Year
1.	
2.	
3.	
4.	
5.	
D. State Approved Lime Stabilization E. Thermal Treatment/Drying F. Phragmites G. Composting H. Other (specify here: I. None ULTIMATE SLUDGE MANAGEMENT METHO	DD CODE
Land Application at a NJPDES Permitted Site State Approved Distribution Permit	
3. Incineration	·
4. Ocean Disposal 5. Out of State	
6. Residual Not Classified as Sludge, Managed by Hazar	urdous or Wasie Flow Regs.
7. Other (specify here:	
8. None Removed	
EQUATIONS	
A. Dry Tons = Gallons (wet) X Solid Content (of the 240	gallons)
B. Dry Tons = Cubic Yards (wet) X Solid Content (of (Y))	the cubic yards)
y = 1.185 where solid content is les	
= 1.265 where solid content is 16 = 1.58 where solid content is 249	
= 1.9 where solid content is great	
C. Dry Tons = Tons (wet) X Solid Content (of the we	et tons)
D. Volatile Solids Reduction = $\frac{VS \text{ before } X}{VX \text{ before}}$ (VS be	

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example

1% Total Solids = .01

20% Total Solids = .20

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD Yr. Mo.

REPORTING CATEGORY

0 0 2 1 0 1 6

2 9 9

2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

Arsenic 01002 3 5 9 Beryllium 01012 0 4 7 Cadmium 61527 1 4 1	*
Cadmium 61527 1 4 1	*
مرين معتمل الماعاما والمعتمل المعتمل ا	_
Chromium 61512 1 7 1 5	1
Copper 61506 3 2 7 8	
Iron 01045 3 2 6 0	
Lead 61503 3 1 0	
Mercury 01260 1 2 1	
Molybdenum 01062 1 9 0	
Nickel 61515 4 0 8 0	
Selenium 61518 0 7 4	
Zinc 61509 880	
Selected Chemical	
Total Nitrogen 00625 2 1 6 0 8	}
Ammonia Nitrogen 71845 7 4 6	
Nitrate Nitrogen 71850 2 2	<u>*</u>]
Oil and Grease 00550 4 1 4 7 5	-
Phenols 46000	
Phosphorus 00665 3 3 6 0	
Calcium 00916 1 5 6 3 7 5	
Magnesium 00927 2 3 8 7	į
Potassium 00937 1 3 7 5 .	_
Cyanide 00720 1 7 8 2	
Fluoride 00951 2 7 4	
Chloride 00940 1 7 8 0	

<u>CERTIFICATE OF AUTH</u>	1EN	TICITY
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Arthur A.Martinelli

Name of Authorized Agent (Print)

Chief Chemist

Signature

FEB 23, 1993

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. <u>07407</u>

T:VWX-009 • 5/29

New Jersey Department of Environmental Protection Division of Water Resources

Page 2 of 2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO. REPORTING PERIOD REPORTING CATEGORY

0 0 2 1 0 1 6 0 1 1 9 9 3 5 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER Pesticides and	STORET	TOTAL PHASE (dry weight basis,	NONE DETECTED
Aldrin Chlordane Dieldrin DDT Heptachlor Lindane PCB's	39330 39350 39380 39370 39410 39782 39516		* * * * * * * * * * * * * * * * * * * *
Toxaphene Purgeables	39400	0 1 0 0	*
Benzene Carbon tetrachloride Chloroform Methylene Chloride Tetrachloroethylene Trichloroethylene Vinyl chloride	34030 32102 32106 34423 34475 39180 39175	0 4 8 3 0 9 6 6	* * * * * * * * * * * * * * * * * * * *
Base/Neutrals and Acid Benzidine Benzo(a)pyrene Bis(2-ethylhexyl) phthalate Hexachlorobenzene Hexachlorobutadiene N-nitrosodimethylamine	39120 34247 39100 39700 39702 34438	1 5 2 1 0 3 0 4 3 2 4 1 0 3 0 4 1 0 3 0 4 1 0 6 0 8	*

CERTIFICATE OF AUTHENTIC	ITY
--------------------------	-----

Arthur A.Martinelli
Name of Authorized Agent (Print)

Chief Chemist, PVSC

Titte

Signature

- Feb. 5, 1993

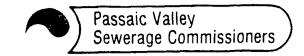
Laboratory Name: Priority One Testing Laboratory

Cert No. 09399

RONALD W. GIACONIA

JAMES KRONE VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951 CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO CHIEF COUNSEL

> LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which originated from our Zimpro process.

New Jersey Department of Environmental Protection Division of Water Resources

DOMESTIC DISCHARGE PERMIT N		REPORTI	
0 0 2 1 0 1 FACILITY NAME: Passaic Valley Sewerage	6 0 1 1 9 9 3	CATEGO 5	Page 1 of 2
A. REPORTING CATEGORY INFO		·····	
Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
Industrial Conribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	2 2 5 8
B. INFORMATION ON SLUDGE PF	RODUCED IN TREATMENT		
1. Average Total Solids of Sludge	(% by weight)	B1:	5 5 0
2. Average Daily Sludge Production	(Gallons/Day)	B2:	4 6 6 4 1
3. Average Daily Sludge Production	(Dry Tons/Day	В3:	1 0 6 9 8
**C. INFORMATION ON SLUDGE I	REMOVED FOR ULTIMATE		
1. Complete ONLY If Liquid Sludge Is Rem		C1.	1 1 1 1
a. Total Solids of Liquid Sludge	(% by weight)	C1:	<u> </u>
b. Average Daily Sludge Removal	(Gallons/Day	C2:	
2. Complete ONLY If Dewatered Sludge Is			احلطما
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	5 5 0
b. Complete ONE of the following:		•	
i. Average Daily Sludge Removal	(Gallons/Day)	C4:	<u> </u>
Total Solids of 2.b.i.	(% by weight)	C5:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	1 9 4 3
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	1 0 6 9 8
4. pH of Sludge Removed	(Standard Units)	C9:	5 0
D. ULTIMATE SLUDGE MANAGEMI	ENT SITE (See Codes on Reverse)		
METHOD HAULER CODE REGISTRY	FACILITY/OPERATION		PERMIT NO.
5 17244	UT OF STATE		
		1	
	 		
E PATHOCEN REPUBLICATION INFOR	NAATION G. G. L. LG. LL.		
E. PATHOGEN REDUCTION INFOR	•	•	FOR DEP USE ONLY
CODE FACILITY/OPER/	ATION PERMIT	NO.	PSRP PFRP
E PASSAIC V	ALLEY 0021	0 1 6	
CERTIFICATE OF AUTHENTICITY			
	AAL TO M	17.41	EED 05 1000
Arthur A.Martinelli Chie Name of Authorized Agent (Print) Title	f Chemist July Signature	WILLIA (M	FEB 25, 1993 Date

Cert No. 07250

946430009

Laboratory Name: Passaic Valley Sewerage Commissioners

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)	,
A. Anaerobic Digestion; or B. Aerobic Digestion; complete the following: 1. Percent Volatile Solids: a. Before Stabilization (as weight % of TS) b. After Stabilization (as weight % of TS) c. Percent Reduction (see equation) 2. Detention Time (Days) 3. Average Temperature (Degrees C)	·
C. Air Drying (Report on any beds emptied for the report period)	
BED DATE SLUDGE LOADED DEPTH POURED DATE SLUDGE REMOVED Month Day Year Inches Month Day Year 1.	
4. [_] [_] [_] [_] [_] [_] [_] [_] [_] [_]	
5. [] [] [] [] [] [] [] [] [] [
D. State Approved Lime Stabilization E. Thermal Treatment/Drying F. Phragmites G. Composting H. Other (specify here:	
8. None Removed	
EQUATIONS	,
A. Dry Tons = Gallons (wet) X Solid Content (of the gallons) 240	
B. Dry Tons = Cubic Yards (wet) X Solid Content (of the cubic yards) (Y) y = 1.185 where solid content is less than 15% = 1.265 where solid content is 16% to 23% = 1.58 where solid content is 24% to 29% = 1.9 where solid content is greater than 30%	
C. Dry Tons = Tons (wet) X Solid Content (of the wet tons)	
D. Volatile Solids Reduction = VS before X VS after X 100 VX before— (VS before X VS after)	
NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:	
1% Total Solids = .01	

20% Total Solids = .20

2

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

 DISCHARGE PERMIT NO.
 REPORTING PERIOD No.
 REPORTING CATEGORY

 | 0 | 0 | 2 | 1 | 0 | 1 | 6 |
 | 1 | 2 | 1 | 9 | 9 | 2 |
 | 5 |

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge)

PARAMETER Metals	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Arsenic Beryllium Cadmium Chromium Copper Iron Lead Mercury Molybdenum Nickel Selenium Zinc Selected Chemical	01002 01012 61527 61512 61506 01045 61503 01260 01062 61515 61518 61509		
Total Nitrogen Ammonia Nitrogen Nitrate Nitrogen Oil and Grease Phenols Phosphorus Calcium Magnesium Potassium Cyanide Fluoride Chloride	00625 71845 71850 00550 46000 00665 00916 00927 00937 00720 00951 00940	1 4 6 0 1 8 9 3 0 1 8 1 8 1 8 1 1 3 7 3 6 3 1 1 8 1 1 3 3 0 0 1 1 1 4 8 8 5 1 1 1 0 4 0 1 1 0 1 0 1 1 0 1 0 1 0 1 1 0 1 0	

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli Chief Chemist
Name of Authorized Agent (Print) Title

Signature

_FEB 23,1993 Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. <u>07407</u>

200-XWY-T 5/89

New Jersey Department of Environmental Protection Division of Water Resources

Page 1 of 2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO. REPORTING PERIOD REPORTING **CATEGORY** Mo. 0 0 2 1 0 1 5 0 9 9 | 3 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETER Pesticides and	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Aldrin Chlordane Dieldrin DDT Heptachlor Lindane PCB's	39330 39350 39380 39370 39410 39782 39516 39400	0 1 0 0	*
Purgeables Benzene Carbon tetrachloride Chloroform Methylene Chloride Tetrachloroethylene Trichloroethylene Vinyl chloride Base/Neutrals and Acid	34030 32102 32106 34423 34475 39180 39175	1 0 0 1 0 1 6 4 0 0 4 1 0 0 4 1 0 0 4 1 0 0 4 1 0 0 4 1 0 0 4 1 0 0 8 2	*
Benzidine Benzo(a)pyrene Bis(2-ethylhexyl) phthalate Hexachlorobenzene Hexachlorobutadiene N-nitrosodimethylamine	39120 34247 39100 39700 39702 34438		*

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli Name of Authorized Agent (Print)

Chief Chemist, PVSC

Title

Signature

- Feb. 5, 1993

Cert No. 09399

MONITORING REPORT - TRANSMITTAL SHEET

. NJPDES NO. Page $1\ \mbox{of}\ 1$

REPORTING PERIOD

MO. YR.

MO. YR.

[0, 0, 2, 1, 0, 1, 6]

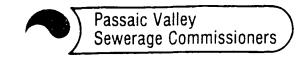
0 2 9 3 THRU 0 2 9 3

PERMITTEE:	Name _	Passaic Valle	ey Sewera	ge Commissio	oners		
	Address .	600 Wilson A	venue	· · · · · · · · · · · · · · · · · · ·			
	•	Newark, New .	Jersey O	7105			
FACILITY:	Name	Passaic Valle	ey Sewera	ge Commissio	oners		
	Addr ess .	600 Wilson Av	venue				
		Newark, N.J.	07105	(County)	Essex		
	Telephon	e <u>(201) 344</u> -	-1800	* - Fo	r reporting period	2/93	
	•				r reporting period		
FORMS ATTACH	ED (India	ate Quantity of Each)		OPERATI	NG EXCEPTIONS		
SLUDGE REPORTS	SANITAR	Y		4		YES	NO
1 T-VWX-007	1 T	·VWX-008 1 T-VW	vx-009	DYE TEST	NG		
* SLUDGE REPORTS	**	*		TEMPORA	RY BYPASSING		
T-VWX-010		-VWX-010B		DISINFECT	ION INTERRUPTION		
		-VWA-010B		MONITORI	NG MALFUNCTIONS		
WASTEWATER REPO				UNITS OUT	OF OPERATION		
T-VWX-011		-VWX-012T-VW	VX-013	OTHER			
GROUNDWATER RE		wx-016vwx-	-017		"Yes" on reverse side riate space.)		
NPDES DISCHARGE	MONITOR	ING REPORT		NOTE: T	ne "Hours Attended at Plan	it" on ti	he
EPA FORM	3320-1				his sheet must also be com		
AUTHENTICATIO	infor of th subm	mation submitted in ose individuals immo nitted information is	n this docu lediately re s true, accu	ment and all at sponsible for ol rate and compl	ly examined and am faitachments and that, battachments and that, battaining the information ete. I am aware that the game that the possibility of fine	sed on in, I be nere are	my inquiry lieve the e significant
LICENSED OPERA	ATOR				CUTIVE OFFICER or ZED REPRESENTATIVE		
Name (Printed)	Phil	Habrukowich		Name (<i>Printed</i>)	Carmine T. Perra	pato	
Grade & Registry N	o. NJ	S-4 #3972	1	Fitle (<i>Printed</i>)	Executive Director	or	
Signature	V 22			Signature	mine T. Fin	uga	to of
Date3	25/93			Date	3/25/13	<i>y</i>	~v
7	,				94643	0013	

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
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RAYMOND LUCHKO
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ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO CHIEF COUNSEL

LOUIS LANZILLO

This domestic wastewater sludge report represents dewatered cake which originated from our Zimpro process.

DOMEST DISCHARGE PERMI	TO WASTEWAT NO. REPO	TER SLUDGE PRTING PERIOD	REPORTIN	
	Mo.	Yr.	CATEGOR	RY Page 1 of 2
FACILITY NAME: Passaic Valley Sewera	1 6 0 2	1 9 9 3	5	l rage of
A. REPORTING CATEGORY INFO			· · · · · · · · · · · · · · · · · · ·	
Permitted Wastewater Flow	(MG	ומ	A1:	3 3 0 0
2. Industrial Conribution	•	f influent)	A2:	1 8
3. Average Daily Septage Treated	•	ons/Day)	A3:	1 7 1 4
B. INFORMATION ON SLUDGE PR	RODUCED IN TRE	EATMENT PROC	ESS	
1. Average Total Solids of Sludge	(% b	y weight)	B1:	5 4 2
2. Average Daily Sludge Production	(Gall	ons/Day)	B2:	5 6 7 4 3
3. Average Daily Sludge Production	(Dry	Tons/Day	B3:	1 2 8 2 0
**C. INFORMATION ON SLUDGE I	REMOVED FOR L	ILTIMATE MANA	AGEMENT	
1. Complete ONLY If Liquid Sludge Is R		oy weight)	C1:	1111
a. Total Solids of Liquid Sludge	•	lons/Day	C1:	
b. Average Daily Sludge Removal		ions/Day	C2.	
2. Complete ONLY If Dewatered Sludge		y weight)	C3:	5 4 2
a. Total Solids of Dewatered Sludgeb. Complete ONE of the following:	(70 5	y weight)	C5.	
i. Average Daily Sludge Remova	ı (Gall	ons/Day)	C4:	
Total Solids of 2.b.i.	•	y weight)	C5:	
ii. Average Daily Sludge Remova		Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Remova	•	Tons/Day)	C7:	2 3 6 4
Total Average Daily Sludge Removal		Tons/Day)	C8:	1 2 8 2 0
4. pH of Sludge Removed	•	dard Units)	C9:	5 6
D. ULTIMATE SLUDGE MANAGEM	ENT SITE (See Coo	les on Reverse)		
METHOD HAULER CODE REGISTRY	·	ITY/OPERATION		PERMIT NO.
				PERMIT NO.
5 17244	OUIT OF	STATE		
E. PATHOGEN REDUCTION INFOR	IMATION (See Code	es and Complete Reve	rse)	
METHOD FACILITY/OPE	ERATION	PERMIT	NO.	FOR DEP USE ONLY PSRP PFRP
E PASSAIC	VALLEY	0021	0 1 6	
			111	
CERTIFICATE OF AUTUENTICITY	/			
CERTIFICATE OF AUTHENTICITY	_	ON A	No +	<u> </u>
Arthur A.Martinelli Ch Name of Authorized Agent (Print) Title	nief Chemist	Signature	Mulevel	Mar. 19, 1993 Date

Cert No. <u>07250</u>

Laboratory Name: Passaic Valley Sewerage Commissioners

946430015

y = 1.185 where solid content is less than 15%

= 1.265 where solid content is 16% to 23%

= 1.58 where solid content is 24% to 29%

= 1.9 where solid content is greater than 30%

C. Dry Tons = Tons (wet) X Solid Content (of the wet tons)

D. Volatile Solids Reduction = VS before X VS after X 100 VX before— (VS before X VS after)

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

1% Total Solids = .01

20% Total Solids = .20

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO. REPORTING PERIOD REPORTING CATEGORY

| 0 | 0 | 2 | 1 | 0 | 1 | 6 | | 0 | 1 | | 1 | 9 | 9 | 3 | | 5 | | 2 |

FACILITY NAME: Passaic Valley

Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge)

PARAMETER <u>Metals</u>	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Arsenic	01002		1 1
Beryllium	01012	1 1 5	*
Cadmium	61527	2 2 5 5	
Chromium	61512	4 9 8 5 5	
Copper	61506	9 4 2 8 5	
Iron	01045	9 8 3 0	
Lead	61503	4 3 0 5	
Mercury	01260	1 9 1	
Molybdenum	01062	1 8 5	
Nickel	61515	6 9 8	
Selenium	61518	3 2 9	
Zinc	61509	1 3 1 0	
Selected Chemical			
Total Nitrogen	00625	1 6 6 3 6	1 1
Ammonia Nitrogen	71845	1 0 6 3	
Nitrate Nitrogen	71850		*
Oil and Grease	00550	1 3 8 1 8 2	
Phenois	46000	6 7 5	
Phosphorus	00665	1 1 1 2 0	
Calcium	00916	1 6 3 5 5	
Magnesium	00927	2 6 3 0	
Potassium	00937	8 9 5	
Cyanide	00720	3 2 7	
Fluoride	00951	1 1 8	
Chloride	00940	1 7 8	

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli
Name of Authorized Agent (Print)

Chief Chemist

Signature

-Mar 23, 1993 Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. <u>07407</u>

New Jersey Department of Environmental Protection **Division of Water Resources**

Page 1 of 2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING **CATEGORY**

0 0 2 1 0 1 2 9 9

2

FACILITY NAME:

Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETER	STORET	TOTAL PHASE	NONE
Pesticides and	CODE	(dry weight basis,	DETECTED
Aldrin	39330	0 1 0 0	*
Chlordane	39350	0.100	*
Dieldrin	39380	0 1 0 0	*
DDT	39370	0 2 5 0	*
Heptachlor	39410	0 0 5 0	*
Lindane	39782	0 0 5 0	*
PCB's	39516	0.500	*
Toxaphene	39400	1 0 0	*
<u>Purgeables</u>			
Benzene	34030	0 1 9 7	
Carbon tetrachloride	32102	0 0 4 7	+
Chloroform	32106	0 0 4 7	*
Methylene Chloride	34423	0.047	*
Tetrachloroethylene	34475	0.166	
Trichloroethylene	39180	0.047	<u> * </u>
Vinyl chloride	39175	0_0 9 3	*
Base/Neutrals and Acid	<u>s</u>		
Benzidine	39120		•
Benzo(a)pyrene	34247	1 8 6	•
Bis(2-ethylhexyl) phthalate	39100	1 3 9	
Hexachlorobenzene	39700	1 8 6	*
Hexachlorobutadiene	39702	1_86	
N-nitrosodimethylamine	34438	3 7 2	*

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli Name of Authorized Agent (Print) Chief Chemist, PVSC

Title

Signature

<u>–Mar 11, 1993</u>

Date

Laboratory Name: Priority One Testing Laboratory

Cert No. 09399

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951 CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO CHIEF COUNSEL

> LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

New Jersey Department of Environmental Protection Division of Water Resources

DOMES DISCHARGE PERM	TIC WASTEWATER		ORT PORTING	
	Mo.		TEGORY	2
FACILITY NAME: Passaic Valley Sewe	1 6 0 2 1	9 9 3	5 1 Page 2 of	لــ
A. REPORTING CATEGORY INF				
Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0	
2. Industrial Conribution	(% of influe	ent) A2:	1 8	
3. Average Daily Septage Treated	(Gallons/Da	y) A3:	1 7 1 4	
B. INFORMATION ON SLUDGE PRODU	JCED IN TREATMENT PROC	ESS		
Average Total Solids of Sludge	(% by weigl	nt) B1:	4 8 0	
2. Average Daily Sludge Production	(Gallons/Da	y) B2:	2 6 0 2 8	
3. Average Daily Sludge Production	(Dry Tons/I	Day B3:	5 2 0 2	
**C. INFORMATION ON SLUDGE		ATE MANAGEM	ENT	
1. Complete ONLY If Liquid Sludge Is	Removed (% by weig	ht) C1:		
a. Total Solids of Liquid Sludge	(Gallons/Da	,	\	
b. Average Daily Sludge Removal		., C2.		
2. Complete ONLY If Dewatered Sludg	, , , , , , , , , , , , , , , , , , ,	nt) C3:	4 8 0	
a. Total Solids of Dewatered Sludge	(70 dy weigi	,		
 b. Complete ONE of the following: i. Average Daily Sludge Remo 	val (Gallons/Da	v) C4:		
Total Solids of 2.b.i.	(% by weigh	,		
ii. Average Daily Sludge Remo				
iii. Average Daily Sludge Remo			1 1 0 8 5	
3. Total Average Daily Sludge Remova		(Pay) C8:		
4. pH of Sludge Removed	(Standard U	nits) C9:	9 9	
D. ULTIMATE SLUDGE MANAGE	MENT SITE (See Codes on F			
METHOD HAULER CODE REGISTRY	FACILITY/OPE	•	PERMIT NO.	
5 17244	OUT OF ST	AITIEI		
E. PATHOGEN REDUCTION INFO	RMATION (See Codes and C	Complete Reverse)		_
METHOD FACILITY/O	PERATION	PERMIT NO.	FOR DEP USE ONL' PSRP PFRP	4
D PASSALIC	VALLEY	0021016		
CERTIFICATE OF AUTHENTICIT	Υ	1000	<i>L</i> 1	
	Chief Chemist	Cettale Me	Mar. 19, 1993	
	Title Signatu	ire	Date	

Cert No. 07250

946430020

Laboratory Name: Passaic Valley Sewerage Commissioners

Alternative equations may be utilized if approved in writing by NJDEP.

1% Total Solids = .01 20% Total Solids = .20

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.	REPORTING PERIOD Mo. Yr.	REPORTING CATEGORY
0 0 2 1 0 1 6	0 1 1 9 9 3	5 2

FACILITY NAME:

Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER Metals	STORET	TOTAL PHASE (dry weight basis,	NONE DETECTED
Arsenic	01002	2 4 4	
Beryllium	01012	0 4 0	*
Cadmium	61527	1 1 6	
Chromium	61512	1 6 5 3	
Copper	61506	3 2 3 9	
iron	01045	2 7 7 0	
Lead	61503	1 7 7	
Mercury	01260	0 5 3	}
Molybdenum	01062	1 4 2	
Nickel	61515	3 4 8	
Selenium	61518	1 2 5	
Zinc	61509	4 2 4 5	
Selected Chemical			
Total Nitrogen	00625	3 0 2 5 6	
Ammonia Nitrogen	71845	8 6 9	
Nitrate Nitrogen	71850	2 1 5	
Oil and Grease	00550	3 7 2 2 0	
PhenoIs	46000	8 2 2	
Phosphorus	00665	6 6 0 0	
Calcium	00916	1 5 4 5 0 0	
Magnesium	00927	_	.
Potassium	00937	9 9 2	
Cyanide	00720	1 2 7 7	
Fluoride	00951	3 1 5	
Chloride	00940	4 2 9 0	

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli Name of Authorized Agent (Print) **Chief Chemist**

Signature

-Mar 23, 1993 Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. <u>07407</u>

Page 2 of 2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD Mo.

REPORTING CATEGORY

0 0 2 1 0 1

2 9 3 9

2

FACILITY NAME:

Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER Pesticides and	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Aldrin Chlordane Dieldrin DDT Heptachlor Lindane PCB's	39330 39350 39380 39370 39410 39782 39516	0 1 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0	* * * * * * * * * * * * * * * * * * * *
Toxaphene Purgeables	39400	1 0 0	
Benzene Carbon tetrachloride Chloroform Methylene Chloride Tetrachloroethylene Trichloroethylene Vinyl chloride	34030 32102 32106 34423 34475 39180 39175	5 0 7 5 0 7 5 0 7 5 0 7 5 0 7 5 0 7 1 0 1	* * * * * * * * * * * * * * * * * * * *
Base/Neutrals and Acid	<u>is</u>		
Benzidine Benzo(a)pyrene Bis(2-ethylhexyl) phthalate Hexachlorobenzene Hexachlorobutadiene N-nitrosodimethylamine	39120 34247 39100 39700 39702 34438	1 9 2 0 3 8 4 0 3 8 4 0 3 8 4 0 7 6 8	* * * * * * * * * * * * * * * * * * * *

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli Name of Authorized Agent (Print) Chief Chemist, PVSC

Signature

-Mar 11, 1993

Cert No. 09399

Laboratory Name: Priority One Testing Laboratory

946430023

MONITORING REPORT - TRANSMITTAL SHEET NUPDES NO. REPORTING PERIOD Page 1 of 1 013 913 THRU 013 913 0 0 2 1 0 1 6 Passaic Valley Sewerage Commissioners PERMITTEE: 600 Wilson Avenue Address Newark, New Jersey 07105 Passaic Valley Sewerage Commissioners FACILITY: Name 600 Wilson Avenue Address Newark, N.J. 07105 Essex (County) 201 344-1800 Telephone For reporting period 3/93 For reporting period 2/93 OPERATING EXCEPTIONS FORMS ATTACHED (Indicate Quantity of Each) YES NO SLUDGE REPORTS - SANITARY T-VWX-007 1 T-VWX-008 DYE TESTING TEMPORARY BYPASSING SLUDGE REPORTS - INDUSTRIAL DISINFECTION INTERRUPTION T-VWX-010A T-VWX-010B MONITORING MALFUNCTIONS WASTEWATER REPORTS UNITS OUT OF OPERATION T-VWX-011 T-VWX-012 T-VWX-013 OTHER GROUNDWATER REPORTS (Detail any "Yes" on reverse side in appropriate space.) VWX-015(A,B) VWX-016 VWX-017 NPDES DISCHARGE MONITORING REPORT NOTE: The "Hours Attended at Plant" on the reverse of this sheet must also be completed. **EPA FORM 3320-1** AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information. I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. PRINCIPAL EXECUTIVE OFFICER or LICENSED OPERATOR DULY AUTHORIZED REPRESENTATIVE Phil Habrukowich Carmine T. Perrapato

Name (Printed) Phil Habrukowich Name (Printed) Carmine T. Perrapato

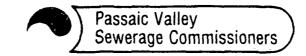
Grade & Registry No. NJ S-4 #3972 Title (Printed) Executive Director

Signature Signature Signature

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951 CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO CHIEF COUNSEL

LOUIS LANZILLO

This domestic wastewater sludge report represents dewatered cake which originated from our Zimpro process.

DOMESTIC WAST DISCHARGE PERMIT NO.	REPORTING PERIOD	REPORT	NG
	Mo. Yr,	CATEGO	RY
O O 2 1 0 1 6 FACILITY NAME: Passaic Valley Sewerage Commissi	0 3 1 9 9 3	5	Page 1 of 2
A. REPORTING CATEGORY INFORMATION			
Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Conribution	(% of influent)	A2:	1 8
Average Daily Septage Treated	(Gallons/Day)	A3:	2 1 2 9
B. INFORMATION ON SLUDGE PRODUCED	IN TREATMENT PROC		
Average Total Solids of Sludge	(% by weight)	B1:	5 2 6
2. Average Daily Sludge Production	(Gallons/Day)	B2:	7 8 0 4 2
3. Average Daily Sludge Production	(Dry Tons/Day	В3:	1 7 1 1 8
**C. INFORMATION ON SLUDGE REMOVED	FOR ULTIMATE MANA	AGEMENT	
1. Complete ONLY If Liquid Sludge Is Removed		~-	
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day	C2:	
2. Complete ONLY If Dewatered Sludge Is Removed			احاطما
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	5 2 6
b. Complete ONE of the following:			
 Average Daily Sludge Removal 	(Gallons/Day)	C4:	
Total Solids of 2.b.i.	(% by weight)	C5:	<u> </u>
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	3 2 5 2
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	1 7 1 1 8
4. pH of Sludge Removed	(Standard Units)	C9:	5 3
D. ULTIMATE SLUDGE MANAGEMENT SITE	(See Codes on Reverse)		
METHOD HAULER CODE REGISTRY	FACILITY/OPERATION		PERMIT NO.
5 17244 OUT O	OF STATE		
E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reve	erse)	
METHOD FACILITY/OPERATION	PERMIT	NO.	FOR DEP USE ONLY PSRP PFRP
E PASSALICI VALLE	E Y 0 0 2 1	0116	
		- 	
CERTIFICATE OF AUTHENTICITY	DOM A	VIII I	/
Arthur A.Martinelli Chief Chemist	luthice	Mulinel	

Laboratory Name: Passaic Valley Sewerage Commissioners

Name of Authorized Agent (Print)

Title

Cert No. <u>07250</u>

Signature

946430026

Date

1% Total Solids = .01

20% Total Solids = .20

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO. REPORTING PERIOD REPORTING **CATEGORY** Mo. Yr. 0 0 2 1 0 1 6 9 2 0 2 9

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge)

PARAMETER <u>Metals</u>	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Arsenic	01002		*
Beryllium	01012	1 4 8	*
Cadmium	61527	2 2 2 0	
Chromium	61512	5 2 9 8 5	
Copper	61506	1 2 3 1 0	
Iron	01045	9610	
Lead	61503	4 1 7 0	
Mercury	01260	1 9 5	
Molybdenum	01062	1 2 7	
Nickel	61515	8 0 1 5	
Selenium	61518	5 7 5	
Zinc	61509	1 2 8 9	
Selected Chemical			
Total Nitrogen	00625		1 1
Ammonia Nitrogen	71845		
Nitrate Nitrogen	71850	9 9 7	
Oil and Grease	00550		
Phenols	46000	1 4 6 6 7 9	<u> </u>
Phosphorus	00665	1 6 3 2 1	<u> </u>
Calcium	00003	1 9 3 7 5	
Magnesium	00910	· · · · · · · · · · · · · · · · · · ·	<u> </u>
Potassium	00927	3 2 6 8	
Cyanide	00937	6 4 0	
Fluoride	00720	1 3 0	
Chloride	00940	——————————————————————————————————————	<u> </u>
Chloride	00940	1 8 5	

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli **Chief Chemist**

Name of Authorized Agent (Print)

Title

Signature

- Apr. 6, 1993

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. <u>07407</u>

New Jersey Department of Environmental Protection Division of Water Resources

Page 1 of 2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO. REPORTING PERIOD REPORTING CATEGORY

| 0 | 0 | 2 | 1 | 0 | 1 | 6 | | 0 | 3 | | 1 | 9 | 9 | 3 | | 5 | 2 |

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETER Pesticides and	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Aldrin Chlordane Dieldrin DDT Heptachlor Lindane PCB's Toxaphene	39330 39350 39380 39370 39410 39782 39516 39400		* * * * * *
Purgeables Benzene Carbon tetrachloride Chloroform Methylene Chloride Tetrachloroethylene Trichloroethylene Vinyl chloride	34030 32102 32106 34423 34475 39180 39175		* * * * *
Base/Neutrals and Acid Benzidine Benzo(a)pyrene Bis(2-ethylhexyl) phthalate Hexachlorobenzene Hexachlorobutadiene N-nitrosodimethylamine	39120 34247 39100 39700 39702 34438		* * * * * * * * * * * * * * * * * * * *

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli
Name of Authorized Agent (Print)

Chief Chemist, PVSC

Title

Signature

<u>APR 13, 1993</u> Date

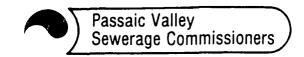
Laboratory Name: Priority One Testing Laboratory

Cert No. 09399

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951 CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO CHIEF COUNSEL

> LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

DOMESTIC WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.	REPORTING PERIOD Mo. Yr.	CATEGO	
0 0 2 1 0 1 6		3 5	1 Page 2 of 2
FACILITY NAME: Passaic Valley Sewerage Commi			
A. REPORTING CATEGORY INFORMATIO	ON		
1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Conribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	2 1 2 9
B. INFORMATION ON SLUDGE PRODUCED IN TRI	EATMENT PROCESS		
1. Average Total Solids of Sludge	(% by weight)	B1:	4 4 5
2. Average Daily Sludge Production	(Gallons/Day)	B2:	1 1 9 8 0
3. Average Daily Sludge Production	(Dry Tons/Day	B3:	2 2 2 1
**C. INFORMATION ON SLUDGE REMOVE	D FOR ULTIMATE MAI	NAGEMENT	
1. Complete ONLY If Liquid Sludge Is Removed	(0/ hinh4)	C1.	1 1 1
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day	C2:	
2. Complete ONLY If Dewatered Sludge Is Removed		<i>C</i> 2.	4 4, 5
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	4 4 5
b. Complete ONE of the following:	(Callang/Day)	C4:	
i. Average Daily Sludge Removal	(Gallons/Day)	C4: C5:	
Total Solids of 2.b.i.	(% by weight)	C6:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day) (Wet Tons/Day)	C0: C7:	
iii. Average Daily Sludge Removal	,	C7:	4 9 9
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	2 2 2 1
4. pH of Sludge Removed	(Standard Units)	C9:	
D. ULTIMATE SLUDGE MANAGEMENT SITI METHOD HAULER	E (See Codes on Reverse)		
CODE REGISTRY	FACILITY/OPERATION		PERMIT NO.
5 17244 OUT	OFISTATE		
E. PATHOGEN REDUCTION INFORMATION	(See Codes and Complete Re	verse)	
METHOD FACILITY/OPERATION	PERM	IT NO.	FOR DEP USE ONLY PSRP PFRP
D PASSAIC VALL	E Y 0 0 2	1 0 1 6	
CERTIFICATE OF AUTHENTICITY	200	7 7/ (1	~~

Laboratory Name: Passaic Valley Sewerage Commissioners

Arthur A.Martinelli

Name of Authorized Agent (Print)

Chief Chemist

Title

Cert No. <u>07250</u>

Signature

946430031

_APR 13, 1993

1% Total Solids = .0120% Total Solids = .20

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO. REPORTING PERIOD REPORTING CATEGORY

| 0 | 0 | 2 | 1 | 0 | 1 | 6 | | 0 | 2 | 1 | 9 | 9 | 3 | | 5 | 2 |

FACILITY NAME:

Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER <u>Metals</u>	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Arsenic Beryllium Cadmium Chromium Copper Iron Lead Mercury Molybdenum Nickel Selenium	01002 01012 61527 61512 61506 01045 61503 01260 01062 61515		*
Zinc Selected Chemical	61509	4 1 5	
Total Nitrogen Ammonia Nitrogen Nitrate Nitrogen Oil and Grease Phenols Phosphorus Calcium Magnesium	00625 71845 71850 00550 46000 00665 00916 00927 00937	1 5 5 5 4 2 5 3 0 7 2 1 8 5 8 3 2 4 2 9 3 8 6 0 2 2 4 2 5 0	
Potassium Cyanide Fluoride Chloride	00937 00720 00951 00940	1 0 1 6 5 0 8 2 1 9 5 3 2 0	

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli
Name of Authorized Agent (Print)

Chief Chemist

Title

Signature

_ Apr. 6, 1993

Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07407

T-VWX-009 5/89

New Jersey Department of Environmental Protection Division of Water Resources

Page 2 of 2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD Mo. Yr.

REPORTING CATEGORY

0 0 2 1 0 1 6

0 3 1 9 9 3

5

2

FACILITY NAME:

Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER Pesticides and	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Aldrin	39330	0001	*
Chlordane	39350	0 0 1 4	*
Dieldrin	39380	0 0 0 1	*
DDT	39370	0006	*
Heptachlor	39410		*
Lindane	39782	0 0 0 1	*
PCB's	39516	0 0 7 2	*
Toxaphene	39400	0 1 4 4	*
<u>Purgeables</u>			
Benzene	34030	0 0 5 8	*
Carbon tetrachloride	32102	0 0 5 8	*
Chloroform	32106	0 0 5 8	*
Methylene Chloride	34423	0.058	*
Tetrachloroethylene	34475	0.086	
Trichloroethylene	39180	0.058	*
Vinyl chloride	39175	0.115	*
Base/Neutrals and Acid	<u>s</u>		
Benzidine	39120	[*
Benzo(a)pyrene	34247	[*
Bis(2-ethylhexyl) phthalate	39100	3 8 3	
Hexachlorobenzene	39700	0 0 7 2	*
Hexachlorobutadiene	39702	0.072	*
N-nitrosodimethylamine	34438	0 1 4 4	*

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli
Name of Authorized Agent (Print)

Chief Chemist, PVSC

Title

Signature

Other O Martine da

APR 13, 1993

Laboratory Name: Priority One Testing Laboratory

Cert No. 09399

946430034

MONITORING REPORT - TRANSMITTAL SHEET

NJPDES NO.
Page 1 of 1

REPORTING PERIOD

MO. YR.

MO. YR.

0 | 0 | 2 | 1 | 0 | 1 | 6

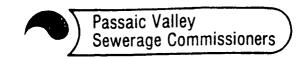
014 913 THRU 014 913

PERMITTEE: FACILITY:	Address 600 Wilson Avenue Newark, New Jersey 07105 Passaic Valley Severage Commissioners					
	Telephone (201) 34	44-1800	<pre>* - For reporting perion ** - For reporting perion</pre>			
SLUDGE REPORTS 1 T-VWX-007 * SLUDGE REPORTS T-VWX-010 WASTEWATER REP T-VWX-011 GROUNDWATER R VWX-015(A NPDES DISCHARGE	T-VWX-008 1 T- *** * **NDUSTRIAL * * * * * * * * * * * * *	VWX-009 VWX-013 WX-017 y of law that I have din this documen mediately responsible true, accurate	OPERATING EXCEPTIONS DYE TESTING TEMPORARY BYPASSING DISINFECTION INTERRUPTION MONITORING MALFUNCTIONS UNITS OUT OF OPERATION OTHER (Detail any "Yes" on reverse side in appropriate space.) NOTE: The "Hours Attended at Plareverse of this sheet must also be controlled to the control of the information and complete. I am aware that the including the possibility of fin	amiliar with the assed on my inquiry on, I believe the there are significant		
LICENSED OPERATOR			PRINCIPAL EXECUTIVE OFFICER or DULY AUTHORIZED REPRESENTATIVE			
Name (Printed)	Phil Habrukowich	Name	(Printed)Carmine T. Perra	pato		
Grade & Registry of Signature	NJ S-A #3972	Title Signa Date	E/24/03	or rangente (29)		
	/		/ ′ 0/	46430035		

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951 CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO CHIEF COUNSEL

> LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which originated from our Zimpro process.

New Jersey Department of Environmental Protection Division of Water Resources

	DOMES DISCHARGE PERM		WATER SLU REPORTING PER Mo.	IOD REF	ORT PORTING FEGORY	
FACILITY NAME:	0 0 2 1 0 Passaic Valley Sewe	1 6 C	0 4 1 9	9 3	5 1	Page 1 of 2
	CATEGORY IN					
1. Permitted Wa	astewater Flow		(MGD)	A1:		3 3 0 0
2. Industrial Con	nribution		(% of influent)	A2:		1 8
3. Average Dail	y Septage Treated		(Gallons/Day)	A3:		2 2 3 3
B. INFORMATIC	N ON SLUDGE	PRODUCED IN	TREATMENT	PROCESS		
Average Tota	I Solids of Sludge		(% by weight)	B1:		5 5 7
2. Average Daily	Sludge Production		(Gallons/Day)	B2:	ε	6 4 4 0 8
3. Average Dail	y Sludge Production		(Dry Tons/Day	В3:	_1	1 4 9 3 9
**C. INFORMAT	ION ON SLUDGE	REMOVED F	OR ULTIMATE	MANAGEMI	ENT	
-	LY If Liquid Sludge Is	Removed	(9/ by weight)	C1:		1 1 1 1
	ls of Liquid Sludge		(% by weight) (Gallons/Day	C1:	1 1	
_	aily Sludge Removal		(Gallolis/Day	C2.		<u> </u>
•	LY If Dewatered Slud		(% by weight)	C3:		5 5 7
	is of Dewatered Sludge		(% by weight)	C3.		
·	ONE of the following:		(Gallons/Day)	C4:	1 1	1 1
	ge Daily Sludge Remo	val	(% by weight)	C5:		
	Solids of 2.b.i.	1	(Wet Cu. Yds/Day		1 1	
	ge Daily Sludge Remo		(Wet Cu. Tus/Day)	C7:		2 6 8 4
	ge Daily Sludge Remo		•	C7:		1 1 1 1
_	Daily Sludge Remova	И	(Dry Tons/Day) (Standard Units)	C8:	1	1 1 1
4. pH of Sludge		145117 0175				5.0
D. ULTIMATE SL METHOD	HAULER	MENISHE (S	ee Codes on Revers	e)		
CODE	REGISTRY		FACILITY/OPERATIO	N .		PERMIT NO.
5	7244	OUTIO	F STAT	E		
E. PATHOGEN R	EDUCTION INFO	RMATION (See	e Codes and Compl	ete Reverse)		
METHOD CODE	FACILITY/C	PERATION		PERMIT NO.		FOR DEP USE ONLY PSRP PFRP
E E	PASSALIC	VALLE	Y lold	0 2 1 0 1 6	<u>.</u>	
]	
CERTIFICATE (OF AUTHENTICIT	ΓΥ	α			
Arthur A.Martinelli		Chief Chemist	ath	The Marte	ull	_May 18, 1993
Name of Authorized Age		Title	Signature			Date

Cert No. 07250

Laboratory Name: Passaic Valley Sewerage Commissioners

F	PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)
A	A. Anaerobic Digestion; or B. Aerobic Digestion; complete the following:
	UNIT 1 UNIT 2 UNIT 3
	a. Before Stabilization (as weight % of TS)
	b. After Stabilization (as weight % of TS)
	c. Percent Reduction (see equation)
	2. Detention Time (Days)
	3. Average Temperature (Degrees C)
c	2. Air Drying (Report on any beds emptied for the report period)
	BED DATE SLUDGE LOADED DEPTH POURED DATE SLUDGE REMOVED Month Day Year Inches Month Day Year
	2.
	3.
	4.
	5.
D	. State Approved Lime Stabilization
E.	. Thermal Treatment/Drying
	. Phragmites
H	. Other (specify here:)
] I.	None
_	
ט	LTIMATE SLUDGE MANAGEMENT METHOD CODE
1.	Land Application at a NJPDES Permitted Site
1.	
1. 2. 3. 4.	Land Application at a NJPDES Permitted Site State Approved Distribution Permit Incineration Ocean Disposal
1. 2. 3. 4. 5.	Land Application at a NJPDES Permitted Site State Approved Distribution Permit Incineration Ocean Disposal Out of State
1. 2. 3. 4. 5. 6. 7.	Land Application at a NJPDES Permitted Site State Approved Distribution Permit Incineration Ocean Disposal Out of State Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs. Other (specify here:
1. 2. 3. 4. 5. 6. 7.	Land Application at a NJPDES Permitted Site State Approved Distribution Permit Incineration Ocean Disposal Out of State Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.
1. 2. 3. 4. 5. 6. 7. 8.	Land Application at a NJPDES Permitted Site State Approved Distribution Permit Incineration Ocean Disposal Out of State Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs. Other (specify here:
1. 2. 3. 4. 5. 6. 7. 8.	Land Application at a NJPDES Permitted Site State Approved Distribution Permit Incineration Ocean Disposal Out of State Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs. Other (specify here: None Removed DUATIONS Dry Tons = Gallons (wet) X Solid Content (of the gallons)
1. 2. 3. 4. 5. 6. 7. 8.	Land Application at a NJPDES Permitted Site State Approved Distribution Permit Incineration Ocean Disposal Out of State Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs. Other (specify here:
1. 2. 3. 4. 5. 6. 7. 8.	Land Application at a NJPDES Permitted Site State Approved Distribution Permit Incineration Ocean Disposal Out of State Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs. Other (specify here: None Removed DUATIONS Dry Tons = Gallons (wet) X Solid Content (of the gallons)
1. 2. 3. 4. 5. 6. 7. 8.	Land Application at a NJPDES Permitted Site State Approved Distribution Permit Incineration Ocean Disposal Out of State Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs. Other (specify here: None Removed DUATIONS Dry Tons = Gallons (wet) X Solid Content (of the gallons) 240 Dry Tons = Cubic Yards (wet) X Solid Content (of the cubic yards) (Y) y = 1.185 where solid content is less than 15%
1. 2. 3. 4. 5. 6. 7. 8.	Land Application at a NJPDES Permitted Site State Approved Distribution Permit Incineration Ocean Disposal Out of State Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs. Other (specify here: None Removed DUATIONS Dry Tons = Gallons (wet) X Solid Content (of the gallons) 240 Dry Tons = Cubic Yards (wet) X Solid Content (of the cubic yards) (Y) y = 1.185 where solid content is less than 15% = 1.265 where solid content is 16% to 23%
1. 2. 3. 4. 5. 6. 7. 8.	Land Application at a NJPDES Permitted Site State Approved Distribution Permit Incineration Ocean Disposal Out of State Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs. Other (specify here: None Removed DUATIONS Dry Tons = Gallons (wet) X Solid Content (of the gallons) 240 Dry Tons = Cubic Yards (wet) X Solid Content (of the cubic yards) (Y) y = 1.185 where solid content is less than 15%
1. 2. 3. 4. 5. 6. 7. 8. EC A. B.	Land Application at a NJPDES Permitted Site State Approved Distribution Permit Incineration Ocean Disposal Out of State Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs. Other (specify here: None Removed DUATIONS Dry Tons = Gallons (wet) X Solid Content (of the gallons) 240 Dry Tons = Cubic Yards (wet) X Solid Content (of the cubic yards) (Y) y = 1.185 where solid content is less than 15% = 1.265 where solid content is 24% to 23% = 1.58 where solid content is 24% to 29%
1. 2. 3. 4. 5. 6. 7. 8. B.	Land Application at a NJPDES Permitted Site State Approved Distribution Permit Incineration Ocean Disposal Out of State Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs. Other (specify here:
1. 2. 3. 4. 5. 6. 7. 8. B.	Land Application at a NJPDES Permitted Site State Approved Distribution Permit Incineration Ocean Disposal Out of State Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs. Other (specify here: None Removed DUATIONS Dry Tons = Gallons (wet) X Solid Content (of the gallons) 240 Dry Tons = Cubic Yards (wet) X Solid Content (of the cubic yards) (Y) y = 1.185 where solid content is less than 15% = 1.265 where solid content is 16% to 23% = 1.58 where solid content is 24% to 29% = 1.9 where solid content is greater than 30% Dry Tons = Tons (wet) X Solid Content (of the wet tons)
1. 2. 3. 4. 5. 6. 7. 8. E.C. D.	Land Application at a NJPDES Permitted Site State Approved Distribution Permit Incineration Ocean Disposal Out of State Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs. Other (specify here:
1. 2. 3. 4. 5. 6. 7. 8. E.C. D.	Land Application at a NJPDES Permitted Site State Approved Distribution Permit Incineration Ocean Disposal Out of State Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs. Other (specify here: None Removed DUATIONS Dry Tons = Gallons (wet) X Solid Content (of the gallons) 240 Dry Tons = Cubic Yards (wet) X Solid Content (of the cubic yards) (Y) y = 1.185 where solid content is less than 15% = 1.265 where solid content is 16% to 23% = 1.58 where solid content is 24% to 29% = 1.9 where solid content is greater than 30% Dry Tons = Tons (wet) X Solid Content (of the wet tons) Volatile Solids Reduction = VS before X VS after VX before— (VS before X VS after)

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO. REPORTING PERIOD REPORTING CATEGORY

| 0 | 0 | 2 | 1 | 0 | 1 | 6 | | 0 | 3 | | 1 | 9 | 9 | 3 | | | 5 | | 2 |

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge)

PARAMETER Metals	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Arsenic	01002	3 6 9	
Beryllium	01012	0 6 5	*
Cadmium	61527	1 8 5	
Chromium	61512	4 0 4 0 5	
Copper	61506	1 0 7 0 7 5	
Iron	01045	8 9 2 0	
Lead	61503	3 6 5	
Mercury	01260	1 6 1	
Molybdenum	01062	1 7 1	
Nickel	61515	6 7 6 0	
Selenium	61518	5 1 5	
Zinc	61509	1 0 8 5	
Selected Chemical			
Total Nitrogen	00625	2 6 3 7 8	
Ammonia Nitrogen	71845	2 5 0	
Nitrate Nitrogen	71850	1 9	*
Oil and Grease	00550	1 3 4 0 3 0	
PhenoIs	46000	1 1 6 9 2	
Phosphorus	00665	1 1 7 0 0	
Calcium	00916	1 2 6 0 0	
Magnesium	00927	2 4 0 3	
Potassium	00937	1 0 0 4	
Cyanide	00720	6 4 0	
Fluoride	00951	9 5 5	
Chloride	00940	1 8 6	

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli Chief Chemist

Laboratory Name: Passaic Valley Sewerage Commissioners

Name of Authorized Agent (Print) Title

Signature

-MAY 13, 1993 Date

Cert No. <u>07407</u>

Page 1 of 2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING **CATEGORY**

0 0 2 1 0 1

9 9

2

FACILITY NAME:

Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETER	STORET	TOTAL PHASE	NONE
Pesticides and	CODE	(dry weight basis,	DETECTED
Aldrin Chlordane Dieldrin DDT Heptachlor Lindane PCB's	39330 39350 39380 39370 39410 39782 39516	0 0 2 3 0 3 3 4 0 0 2 7 0 0 1 4 0 0 0 1 0 0 0 3 0	
Toxaphene	39400	3 3 4	*
<u>Purgeables</u>			
Benzene Carbon tetrachloride Chloroform Methylene Chloride Tetrachloroethylene Trichloroethylene Vinyl chloride Base/Neutrals and Acid	34030 32102 32106 34423 34475 39180 39175	0 1 9 4 0 0 4 5 0 0 8 9	* * *
Dase/Neutrals and Acid			
Benzidine Benzo(a)pyrene Bis(2-ethylhexyl) phthalate Hexachlorobenzene Hexachlorobutadiene N-nitrosodimethylamine	39120 34247 39100 39700 39702 34438		* * *

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli Name of Authorized Agent (Print) Chief Chemist, PVSC

Signature

MAY 13, 1993

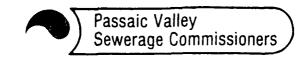
Laboratory Name: Priority One Testing Laboratory

Cert No. 09399

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951 CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO CHIEF COUNSEL

> LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

	DOMES DISCHARGE PERI		TEWATER SLUDO REPORTING PERIOD) REPORTI		
	002110	1 6	Mo. Yr.	CATEGO	RY 11	Page 2 of 2
FACILITY NAME:	Passaic Valley Sew		<u></u>			
A. REPORTING	CATEGORY IN					
1. Permitted Wa	astewater Flow		(MGD)	A1:		3 3 0 0
2. Industrial Con	nribution		(% of influent)	A2:		1 8
3. Average Dail	y Septage Treated		(Gallons/Day)	A3:		2 2 3 3
B. INFORMATION	ON SLUDGE PROD	UCED IN TRE	ATMENT PROCESS			
Average Tota	I Solids of Sludge		(% by weight)	B1:		4 6 6
2. Average Daily	Sludge Production		(Gallons/Day)	B2:		3 1 6 8
3. Average Dail	y Sludge Production		(Dry Tons/Day	вз:		2 5 5 8
**C. INFORMAT	ION ON SLUDGE	REMOVED	FOR ULTIMATE MA	ANAGEMENT		
-	LY If Liquid Sludge Is	Removed	(0/ h.,; ah4)	C1.		1 1
a. Total Solid	ds of Liquid Sludge		(% by weight)	C1:	1 1 1	
b. Average D	Paily Sludge Removal		(Gallons/Day	C2:		
2. Complete ON	LY If Dewatered Slud	ge Is Removed	(0/ 1 1 1)	CO.		1 41 6 6
a. Total Solid	is of Dewatered Sludg	e	(% by weight)	C3:		4 0 0
•	ONE of the following:		(C !!	0.4	1 1 1	
	ige Daily Sludge Remo	oval	(Gallons/Day)	C4:		
	Solids of 2.b.i.		(% by weight)	C5:	1 1 1	
	ge Daily Sludge Remo		(Wet Cu. Yds/Day)	C6:		
	ge Daily Sludge Remo		(Wet Tons/Day)	C7:		5 4 9
3. Total Average	Daily Sludge Remove	al	(Dry Tons/Day)	C8:		2 5 5 8
4. pH of Sludge	Removed		(Standard Units)	C9:		1 1 1
		MENT SITE	(See Codes on Reverse)			
METHOD CODE	HAULER REGISTRY		FACILITY/OPERATION		PE	ERMIT NO.
[5] [1	1 7 2 4 4		OF STATE			
						
E DATHOGEN P	EDUCTION INFO	DMATION	(See Codes and Complete I	Payarea		
METHOD		OPERATION	•	RMIT NO.	FC	OR DEP USE ONLY
CODE						PSRP PFRP
D F	PASSAIC	VALL	E Y 0 0 2	1016		
CERTIFICATE (OF AUTHENTICI	TY	^ .		11	1
Arthur A.Martinelli		Chief Chemist	(to the	The Martin	utt	May 18, 1993
Name of Authorized Age		Cities Chemist Tite	Signature			ate

Cert No. <u>07250</u>

Laboratory Name: Passaic Valley Sewerage Commissioners

PATHOGEN REDUCTION METHOD CODE	(Appropriate section	ons must be completed)	
A. Anaerobic Digestion; or			•
B. Aerobic Digestion; complete the following: 1. Percent Volatile Solids:	UNIT 1	UNIT 2 UNIT 3	
a. Before Stabilization (as weight % of TS)	1 1 1	11.1	
b. After Stabilization (as weight % of TS)	•		
c. Percent Reduction (see equation)			
	1 1 1 1		
(= -, -,			
3. Average Temperature (Degrees C)			
C. Air Drying (Report on any beds emptied for the rep	ort period)		
BED DATE SLUDGE LOADED	DEPTH POURED		
Month Day Year	Inches	Month Day	Year
2.	<u> </u>		
3.	اللا		
			
4.			
5.			
D. State Approved Lime Stabilization			
E. Thermal Treatment/Drying F. Phragmites			
G. Composting			
H. Other (specify here:			
I. Ivole			
ULTIMATE SLUDGE MANAGEMENT METH	OD CODE		
 Land Application at a NJPDES Permitted Site State Approved Distribution Permit 			
3. Incineration			
4. Ocean Disposal	•		
5. Out of State6. Residual Not Classified as Sludge, Managed by Haz	ardous or Waste Flow	Regs.	
7. Other (specify here:			
8. None Removed			
EOUATIONS			
A. Dry Tons = Gallons (wet) X Solid Content (of th	e gallons)		
240	A PHILAMET		
B. Dry Tons = <u>Qubic Yards (wet)</u> X Solid Content (o	of the cubic vards)		
(Y)	A LITO GROUP TRANSP		
y = 1.185 where solid content is 1			
= 1.265 where solid content is 2 = 1.58 where solid content is 2			
= 1.9 where solid content is gre			
C. Dry Tons = Tons (wet) X Solid Content (of the w	vet tons)		
D. Volatile Solids Reduction = VS before X		X 100	
	before X VS after)		
NOTE: The total and volatile solid contents in the abov	e equations must be ex-	pressed as a decimal, for example	e:
1% Total So	•		
20% Total So			

Alternative equations may be utilized if approved in writing by NJDEP.

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO. REPORTING PERIOD REPORTING Mo. Yr. **CATEGORY** 0 0 2 1 0 1 2 0 3 9 9

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
<u>Metals</u>			
Arsenic	01002	1] 3 7	
Beryllium	01012	0 5 2	*
Cadmium	61527	7 2 5	
Chromium	61512	9 2 8 0	
Copper	61506	2 4 2 7	
Iron	01045	2 4 1 0	
Lead	61503	2 1 3	
Mercury	01260	0 3 3	1
Molybdenum	01062	1 6 6	
Nickel	61515	3 5 3 0	
Selenium	61518	0 4 6	*
Zinc	61509	3 0 7	
Selected Chemical			
Total Nitrogen	00625		1 1
Ammonia Nitrogen	71845	4 6 6	
Nitrate Nitrogen	71850	4 1 0	
Oil and Grease	00550	1 6 9 3 8	
Phenols	46000	1 1 5 0 6	L
Phosphorus	00665	4 2 1 0	
Calcium	00916	2 4 6 7 5 0	
Magnesium	00927	2 4 7 8	
Potassium	00937		
Cyanide	00720	1 1 3 7	
Fluoride	00951	2 1 5	
Chloride	00940	2 1 6 0	
			L

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli **Chief Chemist** Name of Authorized Agent (Print) Title

Signature

-MAY 13, 1993 Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. <u>07407</u>

New Jersey Department of Environmental Protection Division of Water Resources

Page 2 of 2

TOXIC ORGANIC COMPOUNDS REPORT

 DISCHARGE PERMIT NO.
 REPORTING PERIOD Mo.
 REPORTING CATEGORY

 0 0 2 1 0 1 6 0 4 1 9 9 3 5 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER Pesticides and	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Aldrin Chlordane Dieldrin DDT Heptachlor Lindane PCB's Toxaphene	39330 39350 39380 39370 39410 39782 39516 39400		* * * * * *
Purgeables Benzene Carbon tetrachloride Chloroform Methylene Chloride Tetrachloroethylene Trichloroethylene Vinyl chloride Base/Neutrals and Acid	34030 32102 32106 34423 34475 39180 39175	0 5 2 0 0 5 2 0 1 0 5 2 0	* * * *
Benzidine Benzo(a)pyrene Bis(2-ethylhexyl) phthalate Hexachlorobenzene Hexachlorobutadiene N-nitrosodimethylamine	39120 34247 39100 39700 39702 34438	0 3 4 6 0 0 6 9 1 4 6 0 0 6 9 0 0 6 9 0 1 3 8	* * * * * * * * * * * * *

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli
Name of Authorized Agent (Print)

Chief Chemist, PVSC

Title

Signature

-May 21, 1993 Date

Laboratory Name: Priority One Testing Laboratory

Cert No. 09399

MONITORING REPORT - TRANSMITTAL SHEET NUPDES NO. REPORTING PERIOD Page 1 of 1 |0₁0₁2₁1₁0₁1₁6| | 0, 5| 9, 3| THRU | 0, 5| 9, 3| Passaic Valley Sewerage Commissioners PERMITTEE: Name 600 Wilson Avenue Address Newark, New Jersey 07105 Passaic Valley Sewerage Commissioners FACILITY: Name 600 Wilson Avenue Address Newark, N.J. 07105 Essex (County) 201) 344-1800 * For reporting period 5/93 ** For reporting period 4/93 **OPERATING EXCEPTIONS** FORMS ATTACHED (Indicate Quantity of Each) YES NO SLUDGE REPORTS - SANITARY T-VWX-007 T-VWX-008 DYE TESTING TEMPORARY BYPASSING SLUDGE REPORTS - INDUSTRIAL DISINFECTION INTERRUPTION T-VWX-010A T-VWX-010B MONITORING MALFUNCTIONS WASTEWATER REPORTS UNITS OUT OF OPERATION T-VWX-012 T-VWX-013 T-VWX-011 OTHER GROUNDWATER REPORTS (Detail any "Yes" on reverse side in appropriate space.) VWX-015(A,B) VWX-016 VWX-017 NPDES DISCHARGE MONITORING REPORT NOTE: The "Hours Attended at Plant" on the reverse of this sheet must also be completed. **EPA FORM 3320-1** AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information. I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. LICENSED OPERATOR PRINCIPAL EXECUTIVE OFFICER or **DULY AUTHORIZED REPRESENTATIVE** Phil Habrukowich Carmine T. Perrapato Name (Printed) Name (Printed) NJ S-4 #3972 Executive Director Grade & Registry No. Title (Printed)

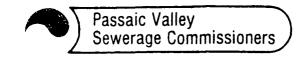
Signature

Signature

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

ROBERT M. BURKE, JR.
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> LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which originated from our Zimpro process.

New Jersey Department of Environmental Protection Division of Water Resources DOMESTIC WASTEWATER SLUDGE REPORT REPORTING DISCHARGE PERMIT NO. REPORTING PERIOD CATEGORY Mo. Page 1 of 2 5 9 5 1 0 0 2 1 0 9 3 Passaic Valley Sewerage Commissioners FACILITY NAME: A. REPORTING CATEGORY INFORMATION 3 3 0 A1: 1. Permitted Wastewater Flow (MGD) (% of influent) A2: 2. Industrial Conribution 3. Average Daily Septage Treated (Gallons/Day) 3 0 A3: B. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESS B1: 1. Average Total Solids of Sludge (% by weight) B2: 2. Average Daily Sludge Production (Gallons/Day) 3. Average Daily Sludge Production (Dry Tons/Day **B3**: **C. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT 1. Complete ONLY If Liquid Sludge Is Removed (% by weight) C1: a. Total Solids of Liquid Sludge C2: (Gallons/Day b. Average Daily Sludge Removal 2. Complete ONLY If Dewatered Sludge Is Removed 6 Ω L C3: (% by weight) a. Total Solids of Dewatered Sludge b. Complete ONE of the following: C4: (Gallons/Day) Average Daily Sludge Removal C5: (% by weight) Total Solids of 2.b.i. C6: (Wet Cu. Yds/Day) ii. Average Daily Sludge Removal 8 C7: (Wet Tons/Day) iii. Average Daily Sludge Removal C8: 1 1 3. Total Average Daily Sludge Removal (Dry Tons/Day) 4. pH of Sludge Removed (Standard Units) C9: 2 D. ULTIMATE SLUDGE MANAGEMENT SITE (See Codes on Reverse) METHOD HAULER CODE REGISTRY FACILITY/OPERATION PERMIT NO. 5 1 7 2 4 4 E. PATHOGEN REDUCTION INFORMATION (See Codes and Complete Reverse) FOR DEP USE ONLY METHOD FACILITY/OPERATION PERMIT NO. CODE PSRP PFRP 0 0 2 1 0 1 6 Ε PASSAIC

CERTIFICAT	'E		リエレヘリエン
CENTITION		AUINEI	

Arthur A.Martinelli Name of Authorized Agent (Print) Chief Chemist Title

Signature

6/21/93

Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

J/09	2.
PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)	,
A. Anaerobic Digestion; or B. Aerobic Digestion; complete the following: 1. Percent Volatile Solids: a. Before Stabilization (as weight % of TS) b. After Stabilization (as weight % of TS) c. Percent Reduction (see equation) 2. Detention Time (Days) 3. Average Temperature (Degrees C)	
C. Air Drying (Report on any beds emptied for the report period)	
BED DATE SLUDGE LOADED DEPTH POURED Month Day Year 1.	
D. State Approved Lime Stabilization E. Thermal Treatment/Drying F. Phragmites G. Composting H. Other (specify here:) I. None	
ULTIMATE SLUDGE MANAGEMENT METHOD CODE 1. Land Application at a NIPDES Permitted Site 2. State Approved Distribution Permit 3. Incineration 4. Ocean Disposal 5. Out of State 6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs. 7. Other (specify here:) 8. None Removed	
EOUATIONS	
A. Dry Tons = Gallons (wet) X Solid Content (of the gallons) 240	
B. Dry Tons = Cubic Yards (wet) X Solid Content (of the cubic yards) (Y) y = 1.185 where solid content is less than 15% = 1.265 where solid content is 16% to 23% = 1.58 where solid content is 24% to 29% = 1.9 where solid content is greater than 30%	
C. Dry Tons = Tons (wet) X Solid Content (of the wet tons)	
D. Volatile Solids Reduction = VS before X VS after X 100 VX before— (VS before X VS after)	
NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:	
1% Total Solids = .01 20% Total Solids = .20	

₹-`√WX-QŌ& • 5/89

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.	REPORTIN	IG PERIOD	REPORTING CATEGORY	
0002110116		1 9 9 3	5	2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge)

PARAMETER <u>Metals</u>	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Arsenic	01002	2 9 3	
Beryllium	01012	0 8 5	*
Cadmium	61527	1 9 1 5	
Chromium	61512	6 1 1 4 0	
Copper	61506		
Iron	01045	1 0 1 4 0	
Lead	61503	4 8 4 5	
Mercury	01260	2 3 3	
Molybdenum	01062	1 9 8	
Nickel	61515	8 6 2 0	3
Selenium	61518	3 5 3	
Zinc	61509	1 1 3 1	
Selected Chemical			
Total Nitrogen	00625	6 8 6 0 3	
Ammonia Nitrogen	71845	2 3 3 2	
Nitrate Nitrogen	71850	3 9 0	
Oil and Grease	00550	1 7 0 5 5 6	
PhenoIs	46000	1 2 3 8 8	
Phosphorus	00665	1 2 0 0 0	
Calcium	00916	1 6 3 3 8	
Magnesium	00927	3 0 8 6	-
Potassium	00937	1 0 4 0	
Cyanide	00720	6 2 8	
Fluoride	00951	1 1 8	
Chloride	00940	4 0	*

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli	Chief Chemist		Martinett		6/19/02
Name of Authorized Agent (Print)	Title	Signature		Date	6/18/93

Laboratory Name: Passaic Valley Sewerage Commissioners Cert No.

Cert No. <u>07407</u>

New Jersey Department of Environmental Protection Division of Water Resources

Page 1 of 2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

9

REPORTING **CATEGORY**

0 0 2 1 0

5 9

2

FACILITY NAME:

Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETER Pesticides and	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Aldrin	39330	0 0 8 7	*
Chlordane	39350	1 2 4	*
Dieldrin	39380	0 0 9 9	*
DDT	39370	0 5 2 2	*
Heptachlor	39410	0 0 3 7	*
Lindane	39782	0 1 2 2	*
PCB's	39516	6 2 2	*
Toxaphene	39400	1 2 4	*
<u>Purgeables</u>		•	
Benzene	34030	0 1 3 0	
Carbon tetrachloride	32102	0 0 4 1	*
Chloroform	32106	0 0 4 1	*
Methylene Chloride	34423	0.041	*
Tetrachloroethylene	34475	0-120	*
Trichloroethylene	39180	0,041	*
Vinyl chloride	39175	0.082	*
Base/Neutrals and Acid	<u>ls</u>		
Benzidine	39120	1 6 3	*
Benzo(a)pyrene	34247	0 3 2 6	*
Bis(2-ethylhexyl) phthalate	39100	1 4 9	
Hexachlorobenzene	39700	0326	<u> </u>
Hexachlorobutadiene	39702	0.326	*
N-nitrosodimethylamine	34438	0 6 5 2	*

<u>CERTIFICATE OF AUTHENTICITY</u>

Arthur A.Martinelli Name of Authorized Agent (Print) Chief Chemist, PVSC

Signature

6/18/93 Date

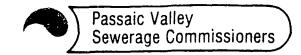
Laboratory Name: Priority One Testing Laboratory

Cert No. <u>09399</u>

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951 CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO CHIEF COUNSEL

LOUIS LANZILLO

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

New Jersey Department of Environmental Protection Division of Water Resources

	MESTIC WASTE E PERMIT NO.	EWATER SLUDGE REPORTING PERIOD	REPORTI	NG
	1 1 1 1 1	Mo. Yr.	CATEGO	
FACILITY NAME: Passaic Valle	1 0 1 6 Earline Commission	0 5 1 9 9 3	5	1 Page 2 of 2
A. REPORTING CATEGO		nners		
Permitted Wastewater Flor		(MGD)	A1:	3 3 0 0
2. Industrial Conribution	•	(% of influent)	A2:	1 8
3. Average Daily Septage Trea	ted	(Gallons/Day)	A3:	3 0 9 7
B. INFORMATION ON SLUDGE	PRODUCED IN TREAT	MENT PROCESS		
Average Total Solids of Slu	ige	(% by weight)	B1:	4 6 6
2. Average Daily Sludge Produ		(Gallons/Day)	B2:	3 9 2 8 4
3. Average Daily Sludge Produ	ction	(Dry Tons/Day	вз:	7 6 2 3
**C. INFORMATION ON SL	UDGE REMOVED F	OR ULTIMATE MAN	AGEMENT	
1. Complete ONLY If Liquid S	ludge Is Removed	(0/ h	C1:	1 1
a. Total Solids of Liquid Sl	_	(% by weight)	C1:	
b. Average Daily Sludge Re		(Gallons/Day	C2:	
2. Complete ONLY If Dewater	•	(% by weight)	C3:	4 6, 6
a. Total Solids of Dewatere	· ·	(/o by weight)	C3.	<u> </u>
b. Complete ONE of the fol	_	(Gallons/Day)	C4:	
 Average Daily Sludg Total Solids of 2.b.i. 	e Removai	(% by weight)	C5:	
ii. Average Daily Sludg	re Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludg		(Wet Tons/Day)	C7:	1 6 3 7
3. Total Average Daily Sludge		(Dry Tons/Day)	C8:	7 6 2 3
4. pH of Sludge Removed		(Standard Units)	C9:	11 1 3
D. ULTIMATE SLUDGE MA	NAGEMENT SITE	See Codes on Reverse)		
METHOD HAULER CODE REGISTRY	(FACILITY/OPERATION		PERMIT NO.
5 1 7 2 4 4	O U T O	F S T A T E		
E. PATHOGEN REDUCTION	INFORMATION (S	ee Codes and Complete Reve	erse)	
METHOD FA	CILITY/OPERATION	PERMIT	NO.	FOR DEP USE ONLY PSRP PFRP
D PASSA	IC VALLE	Y 0021	0 1 6	
CERTIFICATE OF AUTHE	NTICITY			Sin
Arthur A.Martinelli	Chief Chemist	S.C.B.C.	1/ Below	_6/21/93
Name of Authorized Agent (Print)	Title	Signature		Date

Cert No. <u>07250</u>

Laboratory Name: Passaic Valley Sewerage Commissioners

= 1.58 where solid content is 24% to 29%

= 1.9 where solid content is greater than 30%

C. Dry Tons = Tons (wet) X Solid Content (of the wet tons)

D. Volatile Solids Reduction = VS before X VS after X 100

VX before— (VS before X VS after)

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

1% Total Solids = .01

20% Total Solids = .20

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.	REPORTIN	NG PERIOD	REPORTING
	Mo.	Yr.	CATEGORY
0 0 2 1 0 1 6	0 4	1 9 9 3	5 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER <u>Metals</u>	STORET	TOTAL PHASE (dry weight basis,	NONE DETECTED
Arsenic	01002	1 8 0	
Beryllium	01012	0 6 4	*
Cadmium	61527		
Chromium	61512	2 4 1 7 0	
Copper	61506	5 6 7 5 5	
Iron	01045	3 1 3 0	
Lead	61503	2 4 1 5	
Mercury	01260	0 8 2	
Molybdenum	01062	1 8 9	
Nickel	61515	4 6 7 5	
Selenium	61518	2 1 9	
Zinc	61509	4 8 9	
Selected Chemical			
Total Nitrogen	00625	1 2 5 0 5 4	
Ammonia Nitrogen	71845	2 6 4 4	
Nitrate Nitrogen	71850	3 8 0	
Oil and Grease	00550	4 8 0 4 3	
Phenols	46000	1 1 2 7	
Phosphorus	00665	5 2 5 0	
Calcium	00916	1 2 9 5 0 0	
Magnesium	00927	2 1 6 0	
Potassium	00937	1 0 1 9	
Cyanide	00720	2 3 8 7	
Fluoride	00951	2 6 8	
Chloride	00940	1 0 9 0 0	

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli

Name of Authorized Agent (Print)

Chief Chemist

Title

Chief Chemist

Signature

Chief Chemist

Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07407

T-VWX-009

New Jersey Department of Environmental Protection Division of Water Resources

Page 2 of 2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD Mo. Yr.

REPORTING CATEGORY

0 0 2 1 0 1 6

0 5 1 9 9 3

5 2

FACILITY NAME:

Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER Pesticides and	STORET	TOTAL PHASE (dry weight basis,	NONE DETECTED
Aldrin Chlordane Dieldrin DDT Heptachlor Lindane PCB's	39330 39350 39380 39370 39410 39782 39516	0 0 0 7 0 1 0 7 0 0 0 9 0 0 0 3 0 0 1 0 0 5 3 5	*
Toxaphene <u>Purgeables</u>	39400	1 0 7	*
Benzene Carbon tetrachloride Chloroform Methylene Chloride Tetrachloroethylene Trichloroethylene Vinyl chloride Base/Neutrals and Acid	34030 32102 32106 34423 34475 39180 39175	0 0 5 6 0 0 1 2 2	* * * * * * * * * * * * * * * * * * * *
Benzidine Benzo(a)pyrene Bis(2-ethylhexyl) phthalate Hexachlorobenzene Hexachlorobutadiene N-nitrosodimethylamine	39120 34247 39100 39700 39702 34438		* * * * * * * * * * * * * * * * * * * *

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli
Name of Authorized Agent (Print)

Chief Chemist, PVSC

Title

Signature

mature

6/18/93

Date

Cert No. 09399

MONITORING REPORT - TRANSMITTAL SHEET

Page 1 of 1

NJPDES NO.

REPORTING PERIOD

MO. YR.

MO. YR.

 $0_{1}0_{1}2_{1}1_{1}0_{1}1_{1}6$

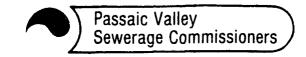
0 6 9 3 THRU 0 6 9 3

PERMITTEE:	Name _	Passaic	Valley Sewerag	e Comm	issione	rs			
	Address	600 Wi	lson Avenue		·····				
		Newark	, New Jersey O	7105					
FACILITY:	Name _	Passaid	Valley Sewera	ge Com	ussione	ers			
	Address	600 Wil	lson Avenue						
		Newark,	N.J. 07105	(C	ounty)	Essex			
	Telephor	e <u>(201</u>	344-1800	<u> </u>	_				
	·					reporting perioreporting perior	•		
FORMS ATTACH	ED (India	ate <u>Quantit</u>	y of Each)	.]	OPERAT	ING EXCEPTIONS			
SLUDGE REPORTS	- SANITAR	IY					YES	NO	
1 T-VWX-007	, []1	-vwx-008	1 T-VWX-009		DYE TEST	ring			
* SLUDGE REPORTS	· INDUSTR	IIAL	∄		TEMPORA	ARY BYPASSING			
T-VWX-010	л Пт	-VWX-010	B		DISINFEC	TION INTERRUPTION			
					MONITOR	ING MALFUNCTIONS			
WASTEWATER REP					UNITS OU	T OF OPERATION			
T-VWX-011	т	-VWX-012	T-VWX-013		OTHER				
GROUNDWATER R		WX-016			•	y "Yes" on reverse sid priate space.)	le		
NPDES DISCHARGE		RING REPOR	ıT			The "Hours Attended a this sheet must also be			
AUTHENTICATIO	info of th subr	rmation sunose indivi nose indivi nitted info	ubmitted in this do iduals immediately ormation is true, ac	cument respons curate a	and all a ible for one company to the company to th	ally examined and auttachments and that obtaining the informolete. I am aware thing the possibility of	it, based or nation, I be nat there ar	n my in elieve tl e signif	quiry he ficant
LICENSED OPER	ATOR					ECUTIVE OFFICER o			
Name (<i>Printed</i>)	Phil Ha	brukowi	ch	Name (Printed) .	Carmine T. Per	rrapato		
Grade & Registry N	No NJ	S-4 #3	972	Title (/	Printed) .	Executive Dire	ector		
Signature	KX Ha			Signati	ira		,		
Date	/23/53	,		Date _		7/13/9	· シ		

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951 CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO CHIEF COUNSEL

> LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which originated from our Zimpro process.

New Jersey Department of Environmental Protection Division of Water Resources

DOMESTIC WA DISCHARGE PERMIT NO.	REPORTING PERIOD Mo. Yr.	REPORTI REPORTII CATEGOI	
0 0 2 1 0 1 6	0 6 1 9 9 3	5	1 Page 1 of 2
FACILITY NAME: Passaic Valley Sewerage Comi	<u> </u>		
A. REPORTING CATEGORY INFORMAT	ION		
1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Conribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	3 0 6 7
B. INFORMATION ON SLUDGE PRODUC	ED IN TREATMENT PROC	CESS	1 1 1 1
1. Average Total Solids of Sludge	(% by weight)	B1:	5 9 8
2. Average Daily Sludge Production	(Gallons/Day)	B2:	3 1 0 9 4
3. Average Daily Sludge Production	(Dry Tons/Day	B3:	7 7 5 1
**C. INFORMATION ON SLUDGE REMOV	ED FOR ULTIMATE MAN	AGEMENT	
1. Complete ONLY If Liquid Sludge Is Removed	(% by weight)	C1:	1 1 1 1
a. Total Solids of Liquid Sludge	(Gallons/Day	C1.	
b. Average Daily Sludge Removal	•	CZ.	
2. Complete ONLY If Dewatered Sludge Is Remov	ed (% by weight)	C3:	5 9 8
a. Total Solids of Dewatered Sludge	(/o by weight)	C3.	<u> </u>
b. Complete ONE of the following:	(Gallons/Day)	C4:	
 i. Average Daily Sludge Removal Total Solids of 2.b.i. 	(% by weight)	C5:	
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	1 2 9 6
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	7 7 5 1
4. pH of Sludge Removed	(Standard Units)	C9:	5 7
D. ULTIMATE SLUDGE MANAGEMENT SI			
METHOD HAULER	(See Codes off Reverse)		
CODE REGISTRY	FACILITY/OPERATION		PERMIT NO.
5 17244 OUT	OF STATE		
E. PATHOGEN REDUCTION INFORMATIO	N (See Codes and Complete Reve	erse)	
METHOD FACILITY/OPERATION	PERMIT	NO.	FOR DEP USE ONLY PSRP PFRP
E PASSAIC VAL	L E Y 0 0 2 1	0 1 6	

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli
Name of Authorized Agent (Print)

Chief Chemist

Signature Montant

_July 13, 1993

Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. <u>07250</u>

PATHOGEN REDUCTION METHOD CODE	(Appropriate sect	tions must be o	completed)	
A. Anaerobic Digestion: or B. Aerobic Digestion: complete the following: 1. Percent Volatile Solids:	UNIT 1	UNIT 2	UNIT 3	•
a. Before Stabilization (as weight % of TS)	1			
b. After Stabilization (as weight % of TS)				
c. Percent Reduction (see equation)	1 • 1			
2. Detention Time (Days)				
3. Average Temperature (Degrees C)				
C. Air Drying (Report on any beds emptied for the repo			·	<u></u>
BED DATE SLUDGE LOADED	DEPTH POURE	ים חי	re sludge remo	OVED
Month Day Year	Inches	Mont.		
1.		LL		
2.				
3.				
4.	لــــــا			
5.		LL		
D. State Approved Lime Stabilization E. Thermal Treatment/Drying F. Phragmites G. Composting H. Other (specify here: I. None)		
ULTIMATE SLUDGE MANAGEMENT METHO	D CODE			
Land Application at a NJPDES Permitted Site State Approved Distribution Permit				
3. Incineration				
4. Ocean Disposal 5. Out of State				
6. Residual Not Classified as Sludge, Managed by Haza	rdous or Waste Flo	w Regs.		
7. Other (specify here:)		
o. Hole Removal	·			
EQUATIONS				
A. Dry Tons = Gallons (wet) X Solid Content (of the 240)	gallons)			
B. Dry Tons = Cubic Yards (wet) X Solid Content (of (Y)	the cubic yards)			
y = 1.185 where solid content is le = 1.265 where solid content is 1 = 1.58 where solid content is 24 = 1.9 where solid content is great	6% to 23% % to 29%			
C. Dry Tons = Tons (wet) X Solid Content (of the w	et tons)			
D. Volatile Solids Reduction = VS before X VX before— (VS b		_ X 100		
NOTE: The total and volatile solid contents in the above	e equations must be	expressed as a de	cimal, for example:	

1% Total Solids = .01 20% Total Solids = .20

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD Mo. Yr.

REPORTING **CATEGORY**

0 0 2 1 0 1 6

5 9 9 0

2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge)

PARAMETER <u>Metals</u>	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Arsenic Beryllium Cadmium Chromium Copper Iron Lead Mercury Molybdenum Nickel	01002 01012 61527 61512 61506 01045 61503 01260 01062 61515		* *
Selenium Zinc Selected Chemical	61518 61509	1 3 9 6	*
Total Nitrogen Ammonia Nitrogen Nitrate Nitrogen Oil and Grease Phenols Phosphorus Calcium Magnesium Potassium Cyanide Fluoride Chloride	00625 71845 71850 00550 46000 00665 00916 00927 00937 00720 00951 00940	6 1 3 9 9 1 1 1 4 0 1 6 2 0 1 6 2 0 1 6 2 0 1 6 2 0 1 4 1 4 2 7 0 0 1 5 2 4 4 3 0 8 2 1 1 2 5 9 7 7 1 1 3 1	

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli Name of Authorized Agent (Print)

Chief Chemist

Title

Signature

July 14, 1993 Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. <u>07407</u>

New Jersey Department of Environmental Protection Division of Water Resources

Page 1 of 2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD Mo.

REPORTING **CATEGORY**

9 6 9

2

FACILITY NAME:

Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETER	STORET	TOTAL PHASE	NONE
Pesticides and	CODE	(dry weight basis,	DETECTED
Aldrin	39330	0 1 0 9	*
Chlordane	39350	1 5 5	*
Dieldrin	39380	0 1 2 4	_*
DDT	39370	0 6 5 2	*
Heptachlor	39410	0 0 4 7	*
Lindane	39782	0 1 4 0	*
PCB's	39516	7 7 6	*
Toxaphene	39400	1 5 5	*
urgeables			
Benzene	34030		*
Carbon tetrachloride	32102	0 0 3 9	*
Chloroform	32106	0 0 3 9	*
Methylene Chloride	34423	0.039	*
Tetrachloroethylene	34475	0.096	
Trichloroethylene	39180	0.039	*
Vinyl chloride	39175	0_0 7 7	+
ase/Neutrals and Acid	<u>s</u>		
Benzidine	39120		•
Benzo(a)pyrene	34247		*
Bis(2-ethylhexyl) phthalate	39100	1 1 8 2	
Hexachlorobenzene	39700	6 8 6	•
Hexachlorobutadiene	39702	6.86	*
N-nitrosodimethylamine	34438	1 3 7	*

Arthur A.Martinelli

Chief Chemist, PVSC

Name of Authorized Agent (Print)

Title

Signature

July 13, 1993

Date

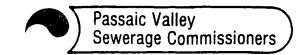
Laboratory Name: Priority One Testing Laboratory

Cert No. 09399

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951 CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO CHIEF COUNSEL

> LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

New Jersey Department of Environmental Protection Division of Water Resources

· ·	DOMESTIC WASTE DISCHARGE PERMIT NO.	WATER SLUDGE I	REPORT REPORTING	G
		Mo. Yr.	CATEGORY	Y
EACILITY NAME: P	0 0 2 1 0 1 6 Cassaic Valley Sewerage Commissio	0 6 1 9 9 3	5	1 Page 2 of 2
	CATEGORY INFORMATION			
Permitted Was		(MGD)	A1:	3 3 0 0
2. Industrial Conri		(% of influent)	A2:	1 8
3. Average Daily	Septage Treated	(Gallons/Day)	A3:	3 0 6 7
B. INFORMATION OF	N SLUDGE PRODUCED IN TREAT	MENT PROCESS		
1. Average Total S	Solids of Sludge	(% by weight)	B1:	4 6 4
2. Average Daily S	ludge Production	(Gallons/Day)	B2:	7 9 9 6 2
3. Average Daily	Sludge Production	(Dry Tons/Day	B3:	1 5 4 4 5
**C. INFORMATIO	ON ON SLUDGE REMOVED F	OR ULTIMATE MANA	GEMENT	
-	If Liquid Sludge Is Removed	(0/ have a labe)	C1.	1 1 1
	of Liquid Sludge	(% by weight)	C1:	
_	ly Sludge Removal	(Gallons/Day	C2:	
•	Y If Dewatered Sludge Is Removed	(0/ barras 1.4)	C2.	1161
	of Dewatered Sludge	(% by weight)	C3:	4 0 4
-	NE of the following:	(C. II	.	
_	Daily Sludge Removal	(Gallons/Day)	C4: L	
	olids of 2.b.i.	(% by weight)	C5:	
_	e Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
-	e Daily Sludge Removal	(Wet Tons/Day)	C7:	3 3 3 2
_	Daily Sludge Removal	(Dry Tons/Day)	C8:	1 5 4 4 5
4. pH of Sludge Re		(Standard Units)	C9:	1 1 0
	DGE MANAGEMENT SITE (S	See Codes on Reverse)		
	HAULER REGISTRY	FACILITY/OPERATION		PERMIT NO.
5 1	7 2 4 4]	F S T A T E		
E. PATHOGEN RE	DUCTION INFORMATION (Se	ee Codes and Complete Rever	se)	
METHOD CODE	FACILITY/OPERATION	PERMIT N	·	FOR DEP USE ONLY PSRP PFRP
D P	ASSALIC VALLE	Y 00211	0 1 6	
CERTIFICATE OF	FAUTHENTICITY	0	2 211	<i>M</i>
Arthur A.Martinelli	Chief Chemist	(MITANTO	2 Mayline	July 13, 1993
Name of Authorized Agent		Signature	(Date
Laboratory Name: Pa	assaic Valley Sewerage Commission	ners Cert No. 07250	·	

PATHOGEN REDUCTION METHOD CODE	DE (Appropriate sections must be completed)	'7 '
A. Anaerobic Digestion; or	· · ·	
B. Aerobic Digestion; complete the following:	UNIT 1 UNIT 2 UNIT 3	
1. Percent Volatile Solids:		
a. Before Stabilization (as weight % of TS)		
b. After Stabilization (as weight % of TS)		
c. Percent Reduction (see equation)		
2. Detention Time (Days)		
3. Average Temperature (Degrees C)		
C. Air Drying (Report on any beds emptied for the r	report period)	
BED DATE SLUDGE LOADED	DEPTH POURED DATE SLUDGE REMOVED	
Month Day Year	Inches Month Day Year	
1.		
2.		
3.		
4.		
5.		
D. State Approved Lime Stabilization E. Thermal Treatment/Drying F. Phragmites		
G. Composting		
H. Other (specify here:		
I. None		·
ULTIMATE SLUDGE MANAGEMENT MET 1. Land Application at a NJPDES Permitted Site	THOD CODE	
2. State Approved Distribution Permit 3. Incineration		
4. Ocean Disposal		
5. Out of State		
 Residual Not Classified as Sludge, Managed by H Other (specify here:	Hazardous or Waste Flow Regs.	
8. None Removed		
EOUATIONS		
A. Dry Tons = Gallons (wet) X Solid Content (of 240	of the gallons)	
B. Dry Tons = Cubic Yards (wet) X Solid Content (Y)	nt (of the cubic yards)	
y = 1.185 where solid content		
= 1.265 where solid content is = 1.58 where solid content is		
= 1.9 where solid content is		
C. Dry Tons = Tons (wet) X Solid Content (of the		
D. Volatile Solids Reduction = VS before		
	VS before X VS after)	
NOTE: The second and admits could be second in the		
NOTE: The total and volatile solid contents in the ab	bove equations must be expressed as a decimal, for example:	
1% Total	bove equations must be expressed as a decimal, for example: at Solids = .01 1 Solids = .20	

Alternative equations may be utilized if approved in writing by NJDEP.

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.	REPORTIN	IG PERIOD	REPORTING	
	Mo.	Yr.	CATEGORY	
0 0 2 1 0 1 6	0 5	1 9 9 3	5	2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER Metals	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Arsenic Beryllium Cadmium Chromium Copper Iron Lead	01002 01012 61527 61512 61506 01045 61503		*
Mercury Molybdenum Nickel Selenium Zinc Selected Chemical	01260 01062 61515 61518 61509		*
Total Nitrogen Ammonia Nitrogen Nitrate Nitrogen Oil and Grease Phenols Phosphorus Calcium Magnesium Potassium Cyanide Fluoride Chloride	00625 71845 71850 00550 46000 00665 00916 00927 00937 00720 00951 00940	9 8 1 9 3 1 5 2 8 2 5 7 5 1 9 4 4 4 8 3 0 1 2 9 3 7 5 3 0 3 5 1 7 6 4 1 2 0 1 1 2 1 7	

Arthur A.Martinelli **Chief Chemist** Name of Authorized Agent (Print) Title

Signature

Cert No. <u>07407</u>

Laboratory Name: Passaic Valley Sewerage Commissioners

Date

-July 14, 1993

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD Mo. Yr.

REPORTING CATEGORY

0 0 2 1 0 1 6

0 6 1 9 9 3

5 2

FACILITY NAME:

Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Pesticides and	CODL	(dry weight basis,	DE120120
Aldrin	39330	0007	*
Chlordane	39350	0.104	*
Dieldrin	39380	0008	*
DDT	39370	0 0 4 4	*
Heptachlor	39410		*
Lindane	39782	0.009	*
PCB's	39516	0 5 2 2	*
Toxaphene	39400	1 0 4	*
<u>Purgeables</u>			
Benzene	34030	1 4 3	*
Carbon tetrachloride	32102	1 4 3	*
Chloroform	32106	1 4 3	*
Methylene Chloride	34423	1,43	*
Tetrachloroethylene	34475	1-43	*
Trichloroethylene	39180	1,4 3	•
Vinyl chloride	39175	2.8 6	*
Base/Neutrals and Acid	<u>Is</u>		
Benzidine	39120		*
Benzo(a)pyrene	34247	0 8 9 8	*
Bis(2-ethylhexyl) phthalate	39100	6 4 1	
Hexachlorobenzene	39700	0 8 9 8	
Hexachlorobutadiene	39702	0.898	*
N-nitrosodimethylamine	34438	1 8 0	*

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli
Name of Authorized Agent (Print)

Chief Chemist, PVSC

Title

Signature

<u> July 13, 1993</u> Date

Cert No. 09399

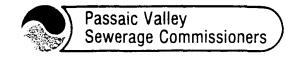
Laboratory Name: Priority One Testing Laboratory

rage 1 of 1	MUNITURING REPOR	(1 - TRANSMITTAL SHEET	
	NJPDES NO.	REPORTING PERIOD MO. YR. MO. YR.	
	010121110116	01 7 9 3 THRU 017 9 3	
PERMITTEE:	Name Passaic Valley Se	werage Commissioners	
	Address 600 Wilson Avenue		
	Newark, New Jerse	y 07105	
FACILITY:	Name Passaic Valley Se	werage Commissioners	
	Address 600 Wilson Avenue		*****
	Newark, N.J. 0710	5 (County) Essex	
	Telephone (201) 344-1800		
505440		* For reporting peri ** For reporting peri	•
	HED (Indicate Quantity of Each)	OPERATING EXCEPTIONS	YES NO
1 T-VWX-00		DYE TESTING	
*	** *	TEMPORARY BYPASSING	
SLUDGE REPORTS		DISINFECTION INTERRUPTION	
T-VWX-01	0AT-VWX-010B	MONITORING MALFUNCTIONS	
WASTEWATER REI	PORTS	UNITS OUT OF OPERATION	
T-VWX-01	1 T-VWX-012 T-VWX-013	OTHER	
GROUNDWATER R		(Detail any "Yes" on reverse side in appropriate space.)	
NPDES DISCHARG	E MONITORING REPORT	<u>NOTE:</u> The "Hours Attended at Parents of this sheet must also be con	
AUTHENTICATI	information submitted in this d of those individuals immediately submitted information is true, a	hat I have personally examined and am to ocument and all attachments and that, I y responsible for obtaining the informat accurate and complete. I am aware that formation including the possibility of fi	based on my inquiry tion, I believe the there are significant
LICENSED OPER	RATOR	PRINCIPAL EXECUTIVE OFFICER or DULY AUTHORIZED REPRESENTATIVE	/E
Name (<i>Printed</i>) _	Phil Habrukowich	Name (Printed) Carmine T. Po	errapato
Grade & Registry I	NJ S-4 #3972	Title (Printed) Executive Div	rector

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

DANIEL F. BECHT ROBERT M. BURKE , JR. THOMAS J. CIFELLI DOMINIC W. CUCCINELLO RAYMOND LUCHKO FRANK ORECHIO DONALD TUCKER COMMISSIONERS



600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951 CARMINE T. PERRAPATO --EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO CHIEF COUNSEL

> LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which originated from our Zimpro process.

New Jersey Department of Environmental Protection

5/89	Division of Water Resources		
DOMESTIC WA DISCHARGE PERMIT NO.	ASTEWATER SLUDGE REPORTING PERIOD Mo. Yr.	REPORT REPORT CATEGO	
0 0 2 1 0 1 6	0 7 1 9 9 3	1 1 1	1 Page 1 of 2
FACILITY NAME: Passaic Valley Sewerage Com	missioners		
A. REPORTING CATEGORY INFORMAT	ION		
Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Conribution	(% of influent)	A2:	1 8
3. Average Daily Septage Treated	(Gallons/Day)	A3:	2 3 5 5
B. INFORMATION ON SLUDGE PRODUC	ED IN TREATMENT PRO	CESS	
Average Total Solids of Sludge	(% by weight)	B1:	5 9 7
2. Average Daily Sludge Production	(Gallons/Day)	B2:	2 4 8 8 0
3. Average Daily Sludge Production	(Dry Tons/Day	B3:	6 1 8 5
**C. INFORMATION ON SLUDGE REMOV	ED FOR ULTIMATE MAN	IAGEMENT	
I. Complete ONLY If Liquid Sludge Is Removed	(0/ 1 1.4)	C1.	1 1 1 1
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day	C2:	
Complete ONLY If Dewatered Sludge Is Remov		C2.	5 9 7
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	<u> </u>
b. Complete ONE of the following:	(Gallons/Day)	C4:	
i. Average Daily Sludge Removal	(% by weight)	C5:	
Total Solids of 2.b.i.	(Wet Cu. Yds/Day)	C6:	
ii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	1 0 3 7
iii. Average Daily Sludge Removal	(Dry Tons/Day)	C7:	
3. Total Average Daily Sludge Removal4. pH of Sludge Removed	(Standard Units)	C8.	1 1 1
			5, 5
D. ULTIMATE SLUDGE MANAGEMENT SI METHOD HAULER	IE (See Codes on Reverse)		
CODE REGISTRY	FACILITY/OPERATION		PERMIT NO.
5 17244 OUT	OF STATE		
E. PATHOGEN REDUCTION INFORMATIO	N (See Codes and Complete Rev	verse)	FOR DEP USE ONLY
CODE FACILITY/OPERATION	PERMI	T NO.	PSRP PFRP
E PASSAIC VAL	LEY 0021	0 1 6	

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli Name of Authorized Agent (Print)

Chief Chemist

Title

Signature

AUG 10, 1993

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07250

VX before— (VS before X VS after)

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

1% Total Solids = .01 20% Total Solids = .20

T-VWX-008 5/89

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

 DISCHARGE PERMIT NO.
 REPORTING PERIOD Mo.
 REPORTING CATEGORY

 0 0 2 1 0 1 6 0 6 1 9 9 3
 5 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge)

PARAMETER <u>Metals</u>	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Arsenic Beryllium	01002 01012	2 7 7	*
Cadmium Chromium	61527 61512	2 7 9 0 7 3 3 3 5	
Copper Iron	61506 01045	1 7 2 8	
Lead Mercury	61503 01260		
Molybdenum Nickel	01062 61515	1 1 1 8 5 5	
Selenium Zinc	61518 61509	2 1 6 3	*
Selected Chemical			
Total Nitrogen Ammonia Nitrogen Nitrate Nitrogen	00625 71845 71850	1 2 7 6 6	
Oil and Grease Phenols	00550 46000	1 7 1 4 0 5	
Phosphorus Calcium	00665 00916	1 7 5 0 0	
Magnesium Potassium Cyanide	00927 00937 00720	3 7 0 2	
Fluoride Chloride	00951 00940	1 3 1	

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli
Name of Authorized Agent (Print)

Chief Chemist

Sign

Signature

_ JUL 9, 1993

Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. <u>07407</u>

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.	REPORTING	G PERIOD	REPORTING	
	Mo.	Yr.	CATEGORY	
0002110116	0 7	1 9 9 3	5	2

FACILITY NAME:

Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge)

PA	RAMETER	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
<u>Me</u>	<u>tais</u>	0002	(dry weight basis,	52,20,20
	Arsenic	01002	3 1 3	
	Beryllium	01012	0 5 9	
	Cadmium	61527	3 3 3 5	
	Chromium	61512	5 6 7 2 5	
	Copper	61506	1 6 5 3	
	Iron	01045	1 2 2 0 0	
	Lead	61503	7 1 4 5	
	Mercury	01260	2 4 1	
	Molybdenum	01062	1 5 5	
	Nickel	61515	9 8 6	
	Selenium	61518	1 6 9	
	Zinc	61509	2 6 3 9	
<u>Sel</u>	ected Chemical			
	Total Nitrogen	00625	1 2 5 6 3	
	Ammonia Nitrogen	71845	2 2 1	
	Nitrate Nitrogen	71850	2 9 2	
	Oil and Grease	00550	1 5 1 5 9 1	
	Phenois	46000	6 7 4	
	Phosphorus	00665	1 9 9 0 0	
	Calcium	00916	1 4 3 0 0	
	Magnesium	00927	4 4 9 9	
	Potassium	00937	1 1 6 9	
	Cyanide	00720	6 2 8	
	Fluoride	00951	1 3 6	
	Chloride	00940		*
				

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli
Name of Authorized Agent (Print)

Chief Chemist

Title

Signature

-AUG 24, 1993 Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. <u>07407</u>

Page 1 of 2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.	REPORTIN	G PERIOD	REPORTING
	Mo.	Yr.	CATEGORY
0002110116	0 7 1 1	1 9 9 3	5 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETER Pesticides and	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Aldrin Chlordane Dieldrin DDT Heptachlor Lindane PCB's	39330 39350 39380 39370 39410 39782 39516	1 4 8 2 1 1 1 6 9 8 8 6 0 6 3 2 1 0 5	* * * * * *
Toxaphene Purgeables	39400	211	•
Benzene Carbon tetrachloride Chloroform Methylene Chloride Tetrachloroethylene Trichloroethylene Vinyl chloride	34030 32102 32106 34423 34475 39180 39175	0 1 4 0	* * * * * *
Base/Neutrals and Acid	<u>ls</u>		
Benzidine Benzo(a)pyrene Bis(2-ethylhexyl) phthalate Hexachlorobenzene Hexachlorobutadiene N-nitrosodimethylamine	39120 34247 39100 39700 39702 34438		* * * *

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli
Name of Authorized Agent (Print)

Chief Chemist, PVSC

S

1100

Signature

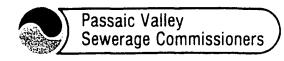
- <u>Aug 6, 1993</u>

Date

Laboratory Name: Priority One Testing Laboratory

Cert No. 09399

946430075



RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

DANIEL F. BECHT ROBERT M. BURKE , JR. THOMAS J. CIFELLI DOMINIC W. CUCCINELLO RAYMOND LUCHKO FRANK ORECHIO DONALD TUCKER COMMISSIONERS 600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951 CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO CHIEF COUNSEL

> LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

•	DOMESTIC DISCHARGE PERMIT NO		ER SLUDGE I	REPORT	NG		
		Mo.	Yr.	CATEGOR	Υ	_ 1	2 of 2
EACH ITY MANE.		6 0 7	1 9 9 3	5	1	Page	2 of 2
FACILITY NAME:	Passaic Valley Sewerage	- -					
	CATEGORY INFORM			A1:	:	3 3	0_0
 Permitted Wa Industrial Co 		(MGI)) influent)	A2:	;	1	1 8
	y Septage Treated	•	mnuent) ons/Day)		1 1	2 3	5 5
	• •	·		A3:	<u> </u>	1 2 3	21 3
	ON SLUDGE PRODUCED			B1:		5	0 7
-	d Solids of Sludge	, ,	weight)		5		3 6
-	y Sludge Production y Sludge Production	•	ns/Day) Fons/Day	B2:		1 1 5	5 2
	ION ON SLUDGE REM			B3:		1113	5 2
	LY If Liquid Sludge Is Remo		LITIVIATE IVIANA	GEWIEN			
-	ds of Liquid Sludge		weight)	C1:			
	Paily Sludge Removal	(Galle	ons/Day	C2:			
_	ILY If Dewatered Sludge Is R	emoved					
_	is of Dewatered Sludge		weight)	C3:		5	Q 7
	ONE of the following:						
	ige Daily Sludge Removal	(Gallo	ns/Day)	C4:			
	Solids of 2.b.i.	(% by	weight)	C5:			
ii. Avera	ge Daily Sludge Removal	(Wet (Cu. Yds/Day)	C6:			
	ige Daily Sludge Removal	(Wet 1	Cons/Day)	C7:		2 2	7 7
	Daily Sludge Removal	(Dry T	ons/Day)	C8:	1 1	1 5	5 2
4. pH of Sludge	, ,	•	ard Units)	C9:	<u> </u>	1	1 2
D. ULTIMATE SI	UDGE MANAGEMEN	T SITE (See Code	es on Reverse)				
METHOD	HAULER	·	ŕ			· · · - · · ·	
CODE	REGISTRY	FACILIT	TY/OPERATION		F	PERMIT NO	
5	17244 01	UT OF S	STATE				
E. PATHOGEN R	EDUCTION INFORMA	TION (See Codes	and Complete Revers	se)			
METHOD CODE	FACILITY/OPERAT	TION	PERMIT N	0.		FOR DEP U	ISE ONLY PFRP
D F	PASSALIC VA	ALLEY	00210	0 1 6			
	1 1 1 1 1 1 1						
CERTIFICATE (OF AUTHENTICITY		0 1 -	11	1.		
Arthur A.Martinelli		Chemist	Tilleto 8	The Land		_AUG 10	1993
Name of Authorized Age			Signature			_AOG 10 Date	, 1990
Laboratory Name:	Passaic Valley Sewerage C	ommissioners	Cert No. <u>07250</u>				

946430077

3/07			
PATHOGEN REDUCTION METHOD CODE	(Appropriate section	s must be completed)	••
A. Anaerobic Digestion; or			
B. Aerobic Digestion; complete the following:	UNIT 1	UNIT 2 UNIT 3	
1. Percent Volatile Solids:	ONIT I		
a. Before Stabilization (as weight % of TS)			
b. After Stabilization (as weight % of TS)			
c. Percent Reduction (see equation)			•
2. Detention Time (Days)			
3. Average Temperature (Degrees C)		ابلا لنا	
C. Air Drying (Report on any beds emptied for the rep	on period)		•
BED DATE SLUDGE LOADED Month Day Year	DEPTH POURED Inches	DATE SLUDGE REMO Month Day Yea	
1.	1 1 1	1 1 1 1 1 1 1	1 1
2.	-1 1 1		1
3.	·		
4. 1 1 1 1 1 1 1 1 1	<u> </u>		
5.			
D. State Approved Lime Stabilization			
E. Thermal Treatment/Drying			
F. Phragmites G. Composting			
H. Other (specify here:)	
I. None			
ULTIMATE SLUDGE MANAGEMENT METH	OD CODE		
Land Application at a NJPDES Permitted Site State Approved Distribution Permit			
3. Incineration			
4. Ocean Disposai			
5. Out of State			
6. Residual Not Classified as Sludge, Managed by Haz		gs.	
7. Other (specify here:			
	-		
EQUATIONS			
A. Dry Tons = Gallons (wet) X Solid Content (of th	e gailons)		
B. Dry Tons = Cubic Yards (wet) X Solid Content (o (Y)	of the cubic yards)		
y = 1.185 where solid content is 1	ess than 15%		
= 1.265 where solid content is			
= 1.58 where solid content is 24	4% to 29%		
= 1.9 where solid content is gre	ater than 30%		
C. Dry Tons = Tons (wet) X Solid Content (of the w	vet tons)		
D. Volatile Solids Reduction = VS before X		100	
VX before— (VS t	perfore X VS after)		

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

1% Total Solids = .01

20% Total Solids = .20

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO. REPORTING PERIOD REPORTING CATEGORY

| 0 | 0 | 2 | 1 | 0 | 1 | 6 | | 0 | 6 | 1 | 9 | 9 | 3 | | 5 | 2 |

FACILITY NAME:

Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER <u>Metals</u>	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Arsenic	01002	1 9 6	
Beryllium	01012	0 3 6	*
Cadmium	61527	1 1 1 5	
Chromium	61512	1 5 0 7 0	
Copper	61506	4 7 6 0 5	
Iron	01045	3 7 0 6	
Lead	61503	2 8 1	
Mercury	01260	1 1 5	
Molybdenum	01062	4 6 3	
Nickel	61515	6 1 3 5	
Selenium	61518	2 8 3	*
Zinc	61509	7 0 2	
Selected Chemical		_	
Total Nitragon	00625		1 1
Total Nitrogen		2 0 8 4 4	
Ammonia Nitrogen	71845	1 3 9 0	
Nitrate Nitrogen	71850	1 5 6	
Oil and Grease	00550	1 5 1 9 4 0	
Phenois	46000	4 9 1	
Phosphorus	00665	5 7 5 0	
Calcium	00916	1 8 3 3 7 5	
Magnesium	00927	2 4 0 9	
Potassium	00937	1 2 8 6	
Cyanide	00720	2 3 4 5	
Fluoride	00951	4 5 7	
Chloride	00940	3 5 5 0	

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli
Name of Authorized Agent (Print)

Chief Chemist

Titte

Signature

_ JUL 9, 1993

Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. <u>07407</u>

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO. REPORTING PERIOD REPORTING CATEGORY

| 0 | 0 | 2 | 1 | 0 | 1 | 6 | | 0 | 7 | | 1 | 9 | 9 | 3 | | 5 | 2

FACILITY NAME:

Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER Metals	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Arsenic Beryllium Cadmium Chromium Copper	01002 01012 61527 61512 61506 01045	1 9 4 1 0 1 5 1 0 4 0 1 2 0 1 0 3 4 2 9 5 2 8 1 0	
Lead Mercury Molybdenum Nickel Selenium Zinc Selected Chemical	61503 01260 01062 61515 61518 61509	1 8 1 0 6 0 3 2 1 4 5 4 5 2 9 5 7 0 3 5	
Total Nitrogen Ammonia Nitrogen Nitrate Nitrogen Oil and Grease Phenols Phosphorus Calcium Magnesium Potassium Cyanide Fluoride Chloride	00625 71845 71850 00550 46000 00665 00916 00927 00937 00720 00951 00940	2 8 8 2 0 2 0 8 3 5 5 0 3 8 5 6 6 3 6 0 2 4 1 4 3 3 3 2 3 1 1 4 4 4 1 1 9 2 3 2 1 2 1 2 3 8 6 0 0	

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli Chief Chemist
Name of Authorized Agent (Print) Title

Signature

-AUG 24, 1993 Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. <u>07407</u>

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING **CATEGORY**

0 0 2 1 0 1

9 9

2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER Pesticides and	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Aldrin Chlordane Dieldrin DDT Heptachlor Lindane PCB's Toxaphene	39330 39350 39380 39370 39410 39782 39516 39400		* * * * *
Purgeables Benzene Carbon tetrachloride Chloroform Methylene Chloride Tetrachloroethylene Trichloroethylene Vinyl chloride Base/Neutrals and Acid	34030 32102 32106 34423 34475 39180 39175	1 9 9 1 9 9	* * * *
Benzidine Benzo(a)pyrene Bis(2-ethylhexyl) phthalate Hexachlorobenzene Hexachlorobutadiene N-nitrosodimethylamine	39120 34247 39100 39700 39702 34438		* * * * * * * * * * * * * * * * * * * *

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli Name of Authorized Agent (Print) Chief Chemist, PVSC

Title

Signature

- Aug 6, 1993 Date

Laboratory Name: Priority One Testing Laboratory

Cert No. 09399

MONITORING REPORT - TRANSMITTAL SHEET

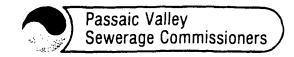
Page I of	1	NJPDES NO.	REPORTI	NG PERIOD Mo. YR.		•
		[0, 0, 2, 1, 0, 1, 6]	0 8 9 3 1	HRU [0 _] 8 9 _] 3		
PERMITTEE:	Name	Passaic Valley Sev	werage Comm	uissioners	<u></u>	
	Address .	600 Wilson Avenue Newark, New Jersey	07105			
FACILITY:	Name	Passaic Valley Sev	verage Comm	issioners		
	Address _	Newark, N.J. 07105	(County)	Essex		
	Telephone	(201) 344-1800	* For	reporting peri	i od 8/ 9	93
FORMS ATTACH	ED (Indica	te Quantity of Each)	OPERAT	TING EXCEPTIONS		
SLUDGE REPORTS	- SANITAR	Y			YES	NO
1 T-VWX-007	·т.	•vwx-008 1 T-vwx-009	DYE TES	TING		
* SLUDGE REPORTS	- INDUSTRI	* AL	TEMPOR	ARY BYPASSING		
T-VWX-010	A []T-	VWX-010B	DISINFE	CTION INTERRUPTION		
			MONITOR	RING MALFUNCTIONS		<u> </u>
T-VWX-011		VWX-012T-VWX-013	UNITS OU	JT OF OPERATION		
GROUNDWATER RE		WX-016 WWX-017	· '	ny "Yes" on reverse side priate space.)		
NPDES DISCHARGE		ING REPORT		The "Hours Attended at f this sheet must also be		
AUTHENTICATIO	inform of the subm	rify under penalty of law that mation submitted in this document of the submitted in the document of the submitted information is true, accument for submitting false information false information.	ument and all a responsible for curate and comp	attachments and that, obtaining the informa plete. I am aware tha	, based on ation, I be it there ar	n my inquir elieve the re significan
LICENSED OPER	ATOR			ECUTIVE OFFICER or	IVE	
Name (Printed)	Phil I	labrukowich	Name (Printed)	Carmine T. P	errapa	to
Grade & Registry A	ho. N.	J S-4 #3972	Title (Printed)	Executive Di	rector	
Signature	V 1/2		Signature			
Date	7/23/5	33 94643	0082	9/28	/s 2	

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

40

DANIEL F. BECHT ROBERT M. BURKE, JR. THOMAS J. CIFELLI DOMINIC W. CUCCINELLO RAYMOND LUCHKO FRANK ORECHIO DONALD TUCKER COMMISSIONERS



600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951 CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO CHIEF COUNSEL

> LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

DOMEST DISCHARGE PERMIT	IC WASTEWA	TER SLUDGE ORTING PERIOD	REPORT REPORTIN	G
0 0 2 1 0	м _{о.} 1 6 0 8	Yr.	CATEGOR 5	Y
FACILITY NAME: Passaic Valley Sewera				
A. REPORTING CATEGORY INFO	RMATION			
1. Permitted Wastewater Flow	(MG	·	A1:	3 3 0 0
2. Industrial Conribution	•	f influent)	A2:	1 8
3. Average Daily Septage Treated	(Gall	lons/Day)	A3:	3 0 6 5
B. INFORMATION ON SLUDGE PRODUC	ED IN TREATMENT	PROCESS		1 1 0 -1
1. Average Total Solids of Sludge	(% b	y weight)	B1:	4 9 7
2. Average Daily Sludge Production	(Gall	lons/Day)	B2:	5 1 9 8 2
3. Average Daily Sludge Production	(Dry	Tons/Day	В3:	1 0 7 7 1
**C. INFORMATION ON SLUDGE R	REMOVED FOR L	JLTIMATE MANA	GEMENT	
1. Complete ONLY If Liquid Sludge Is F			C1.	1 1 1
a. Total Solids of Liquid Sludge	•	by weight)	C1:	
b. Average Daily Sludge Removal	(Gai	llons/Day	C2:	
2. Complete ONLY If Dewatered Sludge				4 0 7
a. Total Solids of Dewatered Sludge	(% b	y weight)	C3:	4 9 7
b. Complete ONE of the following:				
i. Average Daily Sludge Remo		ons/Day)	C4:	
Total Solids of 2.b.i.		y weight)	C5:	
ii. Average Daily Sludge Remo	oval (Wet	Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Remo	oval (Wet	Tons/Day)	C7:	2 1 6 6
3. Total Average Daily Sludge Removal	(Dry	Tons/Day)	C8:	1 0 7 7 1
4. pH of Sludge Removed	(Stan	dard Units)	C9:	1 1 2
D. ULTIMATE SLUDGE MANAGEMI	ENT SITE (See Co	des on Reverse)		
METHOD HAULER CODE REGISTRY	EACII	ITY/OPERATION		PERMIT NO.
				PERIOR NO.
5 17244	OUT OF	STATE		
E. PATHOGEN REDUCTION INFOR	MATION (See Cod	es and Complete Reve	erse)	
METHOD FACILITY/OPE	RATION	PERMIT I	NO.	FOR DEP USE ONLY PSRP PFRP
D PASSAIC	VALLEY	0021	0 1 6	
CERTIFICATE OF AUTHENTICITY		2 -		
	to Character	1100	Mil	1
Arthur A.Martinelli Ch Name of Authorized Agent (Print) Title	ief Chemist	Signature (X	1 / fleun	_Sep 13, 1993

Laboratory Name: Passaic Valley Sewerage Commissioners

946430084

Cert No. <u>07250</u>

PATHOGEN REDUCTION METHOD CODE	(Appropriate sections must be completed)
A. Anaerobic Digestion; or B. Aerobic Digestion; complete the following:	
1. Percent Volatile Solids:	UNIT 1 UNIT 2 UNIT 3
a. Before Stabilization (as weight % of TS)	
b. After Stabilization (as weight % of TS)	
c. Percent Reduction (see equation)	
2. Detention Time (Days)	
3. Average Temperature (Degrees C)	
C. Air Drying (Report on any beds emptied for the rep	port period)
BED DATE SLUDGE LOADED Month Day Year	DEPTH POURED DATE SLUDGE REMOVED Inches Month Day Year
1.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2.	-11
3.	
4.	
5.	
D. State Approved Lime Stabilization E. Thermal Treatment/Drying F. Phragmites G. Composting H. Other (specify here: I. None	·
ULTIMATE SLUDGE MANAGEMENT METH 1. Land Application at a NJPDES Permitted Site 2. State Approved Distribution Permit 3. Incineration 4. Ocean Disposal	HOD CODE
 5. Out of State 6. Residual Not Classified as Sludge, Managed by Haz 7. Other (specify here: 8. None Removed 	
EQUATIONS	
A. Dry Tons = <u>Gallons (wet)</u> X Solid Content (of the 240)	he gailons)
B. Dry Tons = Cubic Yards (wet) X Solid Content (c) (Y)	of the cubic yards)
y = 1.185 where solid content is 1 = 1.265 where solid content is = 1.58 where solid content is 2 = 1.9 where solid content is gre	i 16% το 23% 24% το 29%
C. Dry Tons = Tons (wet) X Solid Content (of the v	wet tons)
D. Volatile Solids Reduction = VS before X	X VS after X 100

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

1% Total Solids = .01

Page 2 of 2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD Mo.

REPORTING **CATEGORY**

0 0 2 1 0 1

9 9 0 8

2

FACILITY NAME:

Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETER Pesticides and	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Aldrin Chlordane Dieldrin DDT Heptachlor Lindane PCB's Toxaphene	39330 39350 39380 39370 39410 39782 39516 39400	0 0 1 3	* * * * * *
Purgeables Benzene Carbon tetrachloride Chloroform Methylene Chloride Tetrachloroethylene Trichloroethylene Vinyl chloride Base/Neutrals and Acid	34030 32102 32106 34423 34475 39180 39175	1 2 0 1 2 0	* * * * * *
Benzidine Benzo(a)pyrene Bis(2-ethylhexyl) phthalate Hexachlorobenzene Hexachlorobutadiene N-nitrosodimethylamine	39120 34247 39100 39700 39702 34438		* * * * * * *

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli Name of Authorized Agent (Print) Chief Chemist, PVSC Title

Signature

-SEP 1, 1993 Date

Laboratory Name: Priority One Testing Lah

^ t No. <u>09399</u>

Passaic Valley Sewerage Commissioners

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

DANIEL F. BECHT ROBERT M. BURKE , JR. THOMAS J. CIFELLI DOMINIC W. CUCCINELLO **PAYMOND LUCHKO** FRANK ORECHIO DONALD TUCKER COMMISSIONERS

600 WILSON AVENUE

NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951

CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

> GABRIEL M. AMBROSIO CHIEF COUNSEL

> > LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which originated from our Zimpro process.

DOMESTIC	WASTEWATER	SHIDGE	REPORT

	DISCHARGE PERM	IIT NO.	REPORTING PERI		CATEGORY		
	00210	1 6	0 8 1 9	9 3	5	1 Page 1 of 2	
FACILITY NAM	E: Passaic Valley Sew	erage Commissi	oners		ــا لـــــــا 		
A. REPORT	ING CATEGORY IN	FORMATION					
1. Permitte	ed Wastewater Flow		(MGD)	A1	•	3 3 0 0	
2. Industria	al Conribution		(% of influent)	A2	•	1 8	
3. Average	Daily Septage Treated		(Gallons/Day)	A3	:	3 0 6 5	
B. INFORMA	TION ON SLUDGE	PRODUCED	N TREATMENT	PROCESS	3		
1. Average	Total Solids of Sludge		(% by weight)	B 1:	:	5 8 3	
2. Average	Daily Sludge Production		(Gallons/Day)	B2:		3 5 3 9 3	
3. Average	Daily Sludge Production		(Dry Tons/Day	B3:	:	8 5 9 5	
**C. INFORM	IATION ON SLUDGE	REMOVED F	OR ULTIMATE	MANAGE	MENT		
1. Complete	ONLY If Liquid Sludge I	s Removed	(m. 1 1.)	~		r r f r	1
a. Tota	l Solids of Liquid Sludge		(% by weight)	C1:			
b. Avei	rage Daily Sludge Remova	1	(Gallons/Day	C2:			
2. Complet	e ONLY If Dewatered Slu	dge Is Removed	/ ~	-		ا جا ط ما	ļ
	l Solids of Dewatered Slud		(% by weight)	C3:	;	5 8 3	;
	iplete ONE of the following	_	(G. II. (D.)	~.	1		
i.	Average Daily Sludge Re	moval	(Gallons/Day)	C4:			1
	Total Solids of 2.b.i.		(% by weight)	C5:	1		-
ii.	Average Daily Sludge Re		(Wet Cu. Yds/Day				
iii.	Average Daily Sludge Re		(Wet Tons/Day)	C7:	·	1 4 7 4	
	erage Daily Sludge Remov	al	(Dry Tons/Day)	C8:	L	8 5 9 5	
4. pH of Si	udge Removed		(Standard Units)	C9:		5 5	
	SLUDGE MANAGE	MENT SITE (See Codes on Revers	e)			
METHOD CODE	HAULER REGISTRY		FACILITY/OPERATION	ı		PERMIT NO.	
5	17244	OUTIO	FSTATI	E			
	N REDUCTION INFO	RMATION (S	ee Codes and Comple	ete Reverse)			7
METHOD CODE	FACILITY/C	PERATION	·	PERMIT NO.		FOR DEP USE ONLY PSRP PFRP	
E	PASSALIC	VALLE	Y	2 1 0 1	6		
					1		
							
					<u> </u>		_
CERTIFICAT	E OF AUTHENTICIT	Υ			1		

Arthur A.Martinelli **Chief Chemist** Name of Authorized Agent (Print)

Title

_Sep 13, 1993

Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. <u>07250</u>

946430088

D. WILLIAM STORY OF CORP.		1 4-13	
PATHOGEN REDUCTION METHOD CODE	(Appropriate sections	must be completed)	·- A
A. Anaerobic Digestion: or			
B. Aerobic Digestion; complete the following:	UNIT 1 U	NIT 2 UNIT 3	
1. Percent Volatile Solids:			
a. Before Stabilization (as weight % of TS)			
b. After Stabilization (as weight % of TS)			
c. Percent Reduction (see equation)			•
2. Detention Time (Days)			
3. Average Temperature (Degrees C)			
C. Air Drying (Report on any beds emptied for the repo	ort period)		
BED DATE SLUDGE LOADED	DEPTH POURED	DATE SLUDGE REMOV	ED
Month Day Year	Inches	Month Day Year	
1.	1 1 1	1 1 11 1 11 1 1	1 1
2.	-1 1		<u> </u>
3.	1 1 1		
4.	1 1 1		1 1
5.	LL		1 1
J. [
D. State Approved Lime Stabilization			
E. Thermal Treatment/Drying			
F. Phragmites G. Composting			
H. Other (specify here:)	
I. None			
ULTIMATE SLUDGE MANAGEMENT METHO	OD CODE		
1. Land Application at a NJPDES Permitted Site			
State Approved Distribution Permit Incineration			
4. Ocean Disposal			
5. Out of State			
6. Residual Not Classified as Sludge, Managed by Haza	ardous or Waste Flow Reg	s.	
7. Other (specify here:			
8. None Removed			·
EOUATIONS			
A. Dry Tons = Gallons (wet) X Solid Content (of the	gallons)		
240		•	
B. Dry Tons = Cubic Yards (wet) X Solid Content (o (Y)	f the cubic yards)		
y = 1.185 where solid content is h	ess than 15%		
= 1.265 where solid content is 1			
= 1.58 where solid content is 24			
= 1.9 where solid content is great	ater than 30%		
C. Dry Tons = Tons (wet) X Solid Content (of the w	vet tons)		
D. Volatile Solids Reduction = VS before X	VS after X	00	

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

1% Total Solids = .01

20% Total Solids = .20

- T-VWX-009 5/89

New Jersey Department of Environmental Protection Division of Water Resources

Page 1 of 2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD

REPORTING CATEGORY

0 0 2 1 0 1

9 9 3 8

2

FACILITY NAME:

Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETER Pesticides and	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Aldrin Chlordane Dieldrin DDT Heptachlor Lindane PCB's Toxaphene	39330 39350 39380 39370 39410 39782 39516 39400		* * * * * * * * *
Purgeables Benzene Carbon tetrachloride Chloroform Methylene Chloride Tetrachloroethylene Trichloroethylene Vinyl chloride Base/Neutrals and Acid	34030 32102 32106 34423 34475 39180 39175	1 0 7 1 0 7 2 1 4	* * * * * *
Benzidine Benzo(a)pyrene Bis(2-ethylhexyl) phthalate Hexachlorobenzene Hexachlorobutadiene N-nitrosodimethylamine	39120 34247 39100 39700 39702 34438		*

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli Name of Authorized Agent (Print) Chief Chemist, PVSC

Signature

Laboratory Name: Priority One Testing Laboratory

Cert No. <u>09399</u>

Signature

Date

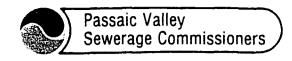
946430091

Signature

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

DANIEL F. BECHT ROBERT M. BURKE , JR. THOMAS J. CIFELLI DOMINIC W. CUCCINELLO RAYMOND LUCHKO FRANK ORECHIO DONALD TUCKER COMMISSIONERS



600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951 CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO CHIEF COUNSEL

> LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which originated from our Zimpro process.

DOMESTIC WASTEWATER SLUDGE REPORT

	DISCHARGE PERM	1IT NO.	REPORTING PERIOD	CATECOI		
	0 0 2 1 0	1 6	Mo. Yr	1 1 1 1	1 1	Page 1 of 2
FACILITY NAME	Passaic Valley Sew	erage Commission	oners			
A. REPORTI	NG CATEGORY INI	FORMATION				
	l Wastewater Flow		(MGD)	A1:	Ĺ	3 3 0 0
2. Industria	l Conribution		(% of influent)	A2:		1 8
3. Average	Daily Septage Treated		(Gallons/Day)	A3:		2 6 6 7
B. INFORMA	TION ON SLUDGE	PRODUCED II	N TREATMENT PI			
1. Average	Total Solids of Sludge		(% by weight)	B1:		6 3 6
2. Average I	Daily Sludge Production		(Gallons/Day)	B2:	3	3 6 3 9
3. Average	Daily Sludge Production		(Dry Tons/Day	B3:		8 9 0 7
**C. INFORM	ATION ON SLUDGE	REMOVED F	OR ULTIMATE M	ANAGEMENT		
1. Complete	ONLY If Liquid Sludge I	s Removed				
a. Total	Solids of Liquid Sludge		(% by weight)	C1:		
b. Aver	age Daily Sludge Remova	1	(Gallons/Day	C2:		
2. Complete	ONLY If Dewatered Slu	dge Is Removed				
_	Solids of Dewatered Sluc	_	(% by weight)	C3:		6 3 6
	olete ONE of the followin					
i.	Average Daily Sludge Re		(Gallons/Day)	C4:		
.,	Total Solids of 2.b.i.		(% by weight)	C5:		
ii.	Average Daily Sludge Re	emoval	(Wet Cu. Yds/Day)	C6:		
	Average Daily Sludge Re		(Wet Tons/Day)	C7:		1 4 d 2
	erage Daily Sludge Removerage Daily Sludge Remove		(Dry Tons/Day)	C8:		
	• •	vai	(Standard Units)			
	idge Removed			C9:		5 9
	SLUDGE MANAGE	MENT SITE (S	See Codes on Reverse)			
METHOD CODE	HAULER REGISTRY		FACILITY/OPERATION		Р	ERMIT NO.
5	17244	OUTO	FISTATE			
E. PATHOGEN	REDUCTION INFO	RMATION (Se	ee Codes and Complete	Reverse)		
METHOD CODE	FACILITY/0	PERATION	PEF	RMIT NO.		FOR DEP USE ONLY PSRP PFRP
E	PASSAIC	VALLE	Y 002	2 1 0 1 6		
CEDTIEICATI	E OE AUTUENTIOT	V				
CENTIFICATI	E OF AUTHENTICIT		PAR	gal a All		
Arthur A. Martin		Chief Chemist	llital	E Marline (X		_Oct 21, 1993
Name of Authorize	d Agent (Print)	Title	Signature	- ((Date

Cert No. <u>07250</u>

946430093

Laboratory Name: Passaic Valley Sewerage Commissioners

PATHOGEN REDUCTION METHOD CODE	(Appropriate sections must be completed)
A. Anzerobic Digestion; or B. Aerobic Digestion; complete the following:	•
1. Percent Volatile Solids:	UNIT 1 UNIT 2 UNIT 3
a. Before Stabilization (as weight % of TS)	11 1
•	
b. After Stabilization (as weight % of TS)	
c. Percent Reduction (see equation)	
2. Detention Time (Days)	
3. Average Temperature (Degrees C)	
C. Air Drying (Report on any beds emptied for the rep	ort period)
BED DATE SLUDGE LOADED	DEPTH POURED DATE SLUDGE REMOVED
Month Day Year	Inches Month Day Year
1.	
2	
3.	
4.	
5.	
D. State Approved Lime Stabilization E. Thermal Treatment/Drying F. Phragmites G. Composting H. Other (specify here: L. None	·
ULTIMATE SLUDGE MANAGEMENT METH 1. Land Application at a NJPDES Permitted Site 2. State Approved Distribution Permit 3. Incineration 4. Ocean Disposal 5. Out of State 6. Residual Not Classified as Sludge, Managed by Haz 7. Other (specify here: 8. None Removed	ardous or Waste Flow Regs.
EOUATIONS	
A. Dry Tons = $Gallons (wet) X Solid Content (of the 240)$	e gallons)
B. Dry Tons = <u>Cubic Yards (wet) X Solid Content (c</u> (Y)	of the cubic yards)
y = 1.185 where solid content is 1 = 1.265 where solid content is 2 = 1.58 where solid content is 2 = 1.9 where solid content is 2	16% to 23% 4% to 29%
= 1.9 where solid content is gre	
C. Dry Tons = Tons (wet) X Solid Content (of the v	ver tons)
D. Volatile Solids Reduction = VS before X VX before— (VS)	VS after X 100 before X VS after)
NOTE: The total and volatile solid contents in the above	e equations must be expressed as a decimal, for example:
1% Total So 20% Total So	

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

 DISCHARGE PERMIT NO.
 REPORTING PERIOD No.
 REPORTING CATEGORY

 | 0 | 0 | 2 | 1 | 0 | 1 | 6 |
 0 | 8 | 1 | 9 | 9 | 3 |
 | 5 | 2 |

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge)

PARAMETERS Metals	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Arsenic	01002	1 6 0	
Beryllium	01012	0 2 9	
Cadmium	61527	3 4 4	
Chromium	61512	5 9 2 9 5	
Copper	61506	1 9 2 2 0	
Iron	01045	1 1 3 0 0	
Lead	61503	8 4 2	
Mercury	01260	3 8 8	
Molybdenum	01062	2 6 9	
Nickel	61515	8 8 6	
Selenium	61518	2 7 8	*
Zinc	61509	3 1 8 8 5	
Selected Chemical	<u>Parameters</u>		
Total Nitrogen	00625		1 1
Ammonia	71845	1 1 6 5 4	
	71850	6 3	
Nitrate Nitrogen Oil and Grease	00550		<u> </u>
Phenois	46000	1 6 8 0 9 6	
		7 0 3 2	
Phosphorus Calcium	00665	1 5 9 0 0	<u> </u>
	00916		
Magnesium	00927	3 2 2 1	
Potassium	00937	7 1 4	
Cyanide	00720	5 0	1
Fluoride	00951	9 7 2	
Chloride	00940	3 5 0	*

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Name of Authorized Agent (Print)

Chief Chemist

Signature

Signature

Cert No. 07407

Laboratory Name: Passaic Valley Sewerage Commissioners

946430095

Date

Oct. 13, 1993

Page 1 of 2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD Mo.

REPORTING **CATEGORY**

0 0 2 1 0 1 6

9 0

9 9 3 1

5

2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETERS	STORET	TOTAL PHASE	NONE DETECTED
Pesticides and PCB's	CODE	(dry weight basis,	DETECTED
Aldrin	39330	0 2 5 9	*
Chlordane	39350	3 6 9	*
Dieldrin	39380	0 2 9 6	*
DDT	39370	1 5 5	*
Heptachlor	39410	0 1 1 1	*
Lindane	39782	0 3 2 2	*
PCB's	39516	1 8 5	*
Toxaphene	39400	369	*
<u>Purgeables</u>			
Benzene	34030	2 0 8	*
Carbon tetrachloride	32102	2 0 8	*
Chloroform	32106	2 0 8	*
Methylene Chloride	34423	2.08	*
Tetrachloroethylene	34475	2-0 8	*
Trichloroethylene	39180	2.08	*
Vinyl chloride	39175	4_1 6	*
Base/Neutrals and Acids			
Benzidine	39120		*
Benzo(a)pyrene	34247		*
Bis(2-ethylhexyl) phthalate	39100	1 3 5	
Hexachlorobenzene	39700	8 3 1	*
Hexachlorobutadiene	39702	8.31	*
N-nitrosodimethylamine	34438	8 3 1	*
•			

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli

Chief Chemist,

Name of Authorized Agent (Print)

Laboratory Name: Priority One Testing Laboratory

Signature

-Oct. 13, 1993 Date

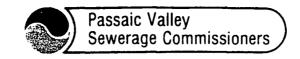
Cert No. 09399

946430096

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

DANIEL F. BECHT ROBERT M. BURKE , JR. THOMAS J. CIFELLI DOMINIC W. CUCCINELLO RAYMOND LUCHKO FRANK ORECHIO DONALD TUCKER COMMISSIONERS



600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951 CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

> GABRIEL M. AMBROSIO CHIEF COUNSEL

> > LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

•		WASTEWAT			TALC	
	DISCHARGE PERMIT NO). REPUR Mo.	RTING PERIOD Yr.	REPORT CATEGO	DRY	1 1 1 1
EACULTY NAME		6 0 9	1 9 9	3 5	1	Page 2 of 2
FACILITY NAME:	Passaic Valley Sewerage NG CATEGORY INFORM					
	Wastewater Flow	(MGD	1)	A1:	3	3 0 0
	Conribution	•	influent)	A2:		1 8
	Daily Septage Treated	•	ns/Day)	A3:	2	
B. INFORMATIO	N ON SLUDGE PRODUCED	IN TREATMENT	PROCESS			
	Total Solids of Sludge		weight)	B1:		4 5 2
•	aily Sludge Production	•	ns/Day)	B2:	7 5	5 1 2 8
3. Average D	Daily Sludge Production	(Dry T	Cons/Day	В3:	1 4	1 1 4 3
**C. INFORMA	TION ON SLUDGE REM	NOVED FOR UL	TIMATE MA	NAGEMENT		
	ONLY If Liquid Sludge Is Remo			C1.		1 1 1
a. Total S	Solids of Liquid Sludge	·	weight)	C1:	1 1 1	
	ge Daily Sludge Removal	·	ons/Day	C2:		
•	ONLY If Dewatered Sludge Is		-usiaht)	<i>C</i> 2.		1 4 5 2
	Solids of Dewatered Sludge	(% ву	weight)	C3:		4 3 2
-	ete ONE of the following:	(Caller	ns/Day)	C4:		
	Average Daily Sludge Removal Fotal Solids of 2.b.i.		weight)	C5:	Lh	
	Average Daily Sludge Removal	•	Cu. Yds/Day)	C6:		
	Average Daily Sludge Removal		Cons/Day)	C7:	3	1 3 0
	age Daily Sludge Removal	•	ons/Day)	C8:	1 1 4	
4. pH of Slud	• •	•	ard Units)	C9:	1 1 -4	1 1 3
	SLUDGE MANAGEMEN					
METHOD	HAULER					
CODE	REGISTRY	FACILIT	Y/OPERATION		PERM	MIT NO.
5	17244	UT OF S	STATE			
	REDUCTION INFORMA	TION (See Codes	and Complete R	Reverse)		
METHOD CODE	FACILITY/OPERAT	ION	PERM	IIT NO.	i	R DEP USE ONLY PSRP PFRP
D	PASSAIC VA	ALLEY	002	1016		
CERTIFICATE	OF AUTHENTICITY					
			PAIL	7 11	#	
Arthur A.Martine	elli Chief (Chemist	allace	· " pulle	<u> </u>	ct 21, 1993

Laboratory Name: Passaic Valley Sewerage Commissioners

Title

Name of Authorized Agent (Print)

Cert No. <u>07250</u>

Signature

Date

20% Total Solids = .20

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.	REPORTIN	IG PERIOD Yr.	REPORTING CATEGORY
0 0 2 1 0 1 6	0 8	1 9 9 3	5 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: <u>Centrifuged (Lime Stabilized) Sludge</u>

PARAMETERS Metals	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Arsenic Beryllium Cadmium Chromium Copper Iron Lead Mercury Molybdenum Nickel Selenium Zinc Selected Chemical F	01002 01012 61527 61512 61506 01045 61503 01260 01062 61515 61518 61509		*
Total Nitrogen Ammonia Nitrate Nitrogen Oil and Grease Phenols Phosphorus Calcium Magnesium Potassium Cyanide Fluoride Chforide	00625 71845 71850 00550 46000 00665 00916 00927 00937 00720 00951 00940	1 5 4 8 7 4 0 9 1 4 0 8 4 1 4 0 8 4 9 8 6 6 2 3 0 2 7 8 5 0 0 2 7 8 5 0 0 2 6 4 2 9 1 5 9 1 5 1 2 8	

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli Chief Chemist Name of Authorized Agent (Print)

Signature

-Oct 13, 1993

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. <u>07407</u>

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD Mo. Yr.

REPORTING CATEGORY

0 0 2 1 0 1 6

9 1 9 9 3 0

5

2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETERS	STORET	TOTAĻ PHASĘ	NONE DETECTED
Pesticides and PCB's	CODE	(dry weight basis,	DETECTED
Aldrin	39330	0029	*
Chlordane	39350	0 4 1 4	*
Dieldrin	39380	0 0 3 3	*
DDT	39370	0 1 7 4	*
Heptachlor	39410	0 0 1 2	*
Lindane	39782	0.037	*
PCB's	39516	207	*
Toxaphene	39400		*
<u>Purgeables</u>			
Benzene	34030	2 8 5	*
Carbon tetrachloride	32102	285	*
Chloroform	32106	2 8 5	*
Methylene Chloride	34423	2,8 5	*
Tetrachloroethylene	34475	2.85	*
Trichloroethylene	39180	2.85	*
Vinyl chloride	39175	5_69	*
Base/Neutrals and Acids	i		
Benzidine	39120	4 5 5	*
Benzo(a)pyrene	34247	4 5 5	*
Bis(2-ethylhexyl) phthalate	39100	6.87	
Hexachlorobenzene	39700	4_5 5	*
Hexachlorobutadiene	39702	4.55	<u>*</u>
N-nitrosodimethylamine	34438	9 1 0	*

CERTIFICATE OF AUTHENTICITY

Laboratory Name: Priority One Testing Laboratory

Arthur A. Martinelli Name of Authorized Agent (Print)

Chief Chemist,

Title

Signature

<u>-Oct 13, 1993</u> Date

Cert No. <u>09399</u>

MONITORING REPORT - TRANSMITTAL SHEET

Page 1 of 1 NUPDES NO.

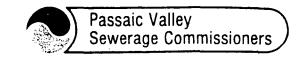
REPORTING PERIOD

			MO.	YR.	MO. YR.			
		0,0,2,1,0,1,6	110	9 3 THR	110913	J		
PERMITTEE:	Name _	Passaic Valley Sew	erage	Commis	sioners		_	
	Address	600 Wilson Avenue					_	
		Newark, New Jersey	0710	5			_	
FACILITY:	Name _	Passaic Valley Sewe	erage	Commis	sioners		_	
	Address	600 Wilson Avenue			····		_	
		Newark, N.J. 07105	((County) E	ssex		_	
	Telephor	ne <u>(201) 344–1800</u>	·-·	_				
				* For ** For	reporting reporting	ng period ng period	10/9 9/93) 3 3
FORMS ATTACH	ED_(Indic	care Quantity of Each)		OPERATIN	IG EXCEPTIO	NS		
SLUDGE REPORTS	- SANITAF	ıy				YE	S NO)
1 T-VWX-007	1	T-VWX-008 1 T-VWX-009	İ	DYE TESTIN	IG			_
* SLUDGE REPORTS	* *	*		TEMPORAR	Y BYPASSING			_
T-VWX-010				DISINFECT	ON INTERRUP	TION -		
				MONITORIN	IG MALFUNCT	ions =		
WASTEWATER REP				UNITS OUT	OF OPERATION	N []
T-VWX-011	ַਾ	T-VWX-012T-VWX-013		OTHER] \square	Į.
GROUNOWATER RE		/wx-016vwx-017		(Detail any in appropri	"Yes" on reve ate space.)	rse side		
NPDES DISCHARGE		RING REPORT				nded at Plant" o also be complet		
AUTHENTICATIO	info of th subr	rtify under penalty of law that rmation submitted in this doc nose individuals immediately nitted information is true, acc alties for submitting false info	cument respons curate a	and all att sible for ob and comple	achments an taining the i ete. I am aw	id that, based information, lare that there	on my I believ e are sig	inquiry e the gnificant
LICENSED OPERA	ATOR				UTIVE OFFIC			
Name (<i>Printed</i>)	Phil F	Habrukowich	Name	(Printed)	Carmine	T. Perra	pato	
Grade & Registry A	NJ NJ	S-4 #3972	Title (Printed)	Executiv	ve Direct	or	
Signature	<i>\\ \\ \\ \\</i>		Signati	ure	mue)	T. Him	ano	- A -
Date (!	14/93	,	Date	///	19419=	946	4301	02

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

DANIEL F. BECHT ROBERT M. BURKE , JR. THOMAS J. CIFELLI DOMINIC W. CUCCINELLO RAYMOND LUCHKO FRANK ORECHIO DONALD TUCKER COMMISSIONERS



600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951 CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO CHIEF COUNSEL

> LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which originated from our Zimpro process.

T-VWX-007 5/89

New Jersey Department of Environmental Protection Division of Water Resources

DOMESTIC WASTEWATER SLUDGE REPORT

·	DISCHARGE PERM	· · · · - ·	PORTING PERIOD	REPORTI		
	0 0 2 1 0	Mo.	0 1 9 9 3	CATEGO 5	1	Page 1 of 2
FACILITY NAME:		erage Commissioner		5		
	NG CATEGORY IN					
İ	Wastewater Flow		GD)	A1:		3 3 0 0
2. Industrial		•	of influent)	A2:	•	1 8
	Daily Septage Treated	•	allons/Day)		1 1	2 2 9 0
	·		<u> </u>	A3:		2 2 9 0
	TION ON SLUDGE) E 3 3 B1:		5 7 8
1	Total Solids of Sludge		by weight)		2	
_	aily Sludge Production	· · · · · · · · · · · · · · · · · · ·	allons/Day)	B2:		
	Daily Sludge Production		y Tons/Day	B3:		6 9 4 1
	TION ON SLUDGE		ULTIMATE MANA	GEMENT		
	ONLY If Liquid Sludge I		by weight)	C1:		1 1 1 1
	Solids of Liquid Sludge	(C	allons/Day	C2:	1 1 1	
į	ge Daily Sludge Remova		aitiis/Day	Ca.		
•	ONLY If Dewatered Slu		h	C2.		5 7 8
	Solids of Dewatered Slud	.80	by weight)	C3:		5 7 8
-	lete ONE of the following	-		~.		
i	Average Daily Sludge Re		illons/Day)	C4:	LL	
	Total Solids of 2.b.i.		by weight)	C5:		
ii.	Average Daily Sludge Re	movai (W	et Cu. Yds/Day)	C6:		
iii. A	Average Daily Sludge Re	moval (W	et Tons/Day)	C7:		1 2 d 0
3. Total Aver	rage Daily Sludge Remov	al (Dr	y Tons/Day)	C8:		6 9 4 1
4. pH of Sluc	ige Removed	(Sta	undard Units)	C9:		5 4
D. ULTIMATE	SLUDGE MANAGE	MENT SITE (See C	Codes on Reverse)			
METHOD CODE	HAULER REGISTRY	EAC	CILITY/OPERATION			ERMIT NO.
						ENIVIT NO.
5	17244	OUT OF	STATE			
	REDUCTION INFO	RMATION (See Co	odes and Complete Reve	erse)		FOR REPUES ONLY
METHOD CODE	FACILITY/O	PERATION	PERMIT N	١٥.		FOR DEP USE ONLY PSRP PFRP
E	PASSAIC	VALLEY	0021	0 1 6		
CERTIFICATE	OF AUTHENTICIT	Υ				
			1000	Mart	\mathcal{M}	11/16/00
Arthur A.Martin Name of Authorized		Chief Chemist	(\ldots	Janua	ue .	_11/16/93 Date
	· · · · · · · · · · · · · · · · · · ·	· · = =	3. 0	•	•	

Laboratory Name: Passaic Valley Sewerage Commissioners Cert No. 07250

946430104

5/89				
PATHOGEN REDUCTION METHOD CODE	(Appropriate sec	tions must be	completed)	
A. Anaerobic Digestion; or B. Aerobic Digestion; complete the following:	UNIT 1	UNIT 2	UNIT 3	
1. Percent Volatile Solids:	1 1 1	11.1	1 1 • 1	
a. Before Stabilization (as weight % of TS)				
b. After Stabilization (as weight % of TS)		1 1 • 1		
c. Percent Reduction (see equation) 2. Detention Time (Days)	1 1 1 1	 .		
3. Average Temperature (Degrees C)		1 •		
, -			<u> </u>	
C. Air Drying (Report on any beds emptied for the report BED DATE SLUDGE LOADED Month Day Year	DEPTH POURI	ED DA Mons	TE SLUDGE REMOVE th Day Year	CD
1.	لـــــــا			
2- [] []	-			
3.				
4.				
5.				
D. State Approved Lime Stabilization E. Thermal Treatment/Drying F. Phragmites G. Composting H. Other (specify here:)		
ULTIMATE SLUDGE MANAGEMENT METHO	OD CODE			
 Land Application at a NIPDES Permitted Site State Approved Distribution Permit Incineration Ocean Disposal Out of State Residual Not Classified as Sludge, Managed by Hazz Other (specify here:		w Regs.		
EOUATIONS				
A. Dry Tons = Gallons (wet) X Solid Content (of the 240	e gailons)			
B. Dry Tons = Cubic Yards (wet) X Solid Content (o (Y)				
y = 1.185 where solid content is 1 = 1.265 where solid content is 2 = 1.58 where solid content is 2 = 1.9 where solid content is gre	16% to 23% 4% to 29%			
C. Dry Tons = Tons (wet) X Solid Content (of the w	vet tons)			
D. Volatile Solids Reduction = VS before X VX before— (VS)	VS after before X VS after)	_ X 100		
NOTE: The total and volatile solid contents in the abov	e equations must be	expressed as a de	ecimal, for example:	
1% Total Sc 20% Total Sc				

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD Mo.

REPORTING **CATEGORY**

0 0 2 1 0 1 6

9 0

9 9 3 1

5

2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge)

PARAMETERS	STORET	TOTAL PHASE	NONE DETECTED
<u>Metals</u>	CODE	(dry weight basis,	DETECTED
Arsenic	01002	1 3 6	
Beryllium	01012	0 2 5	
Cadmium	61527	3 1 3 5	
Chromium	61512	6 1 9 7 0	
Copper	61506	2 2 9 6 2 5	:
Iron	01045	1 2 9 6 0	
Lead	61503	5 2 4 5	
Mercury	01260	2 7 4	
Molybdenum	01062	1 8 7 0	
Nickel	61515	9 6 8 0	
Selenium	61518	4 6 9	*
Zinc	61509	3 3 4 4	
Selected Chemical	<u>Parameters</u>		
Total Nitrogen	00625	9 5 8 2	
Ammonia	71845	3 4 6	
Nitrate Nitrogen	71850	7 5	
Oil and Grease	00550	1 7 3 7 4 2	
Phenois	46000	3 8 3 6	
Phosphorus	00665	2 4 8 0 0	
Calcium	00916	1 7 1 2 5	
Magnesium	00927	4 4 1 4	
Potassium	00937	7 9 2	
Cyanide	00720	4 6 2	
Fluoride	00951	1 0 4	
Chloride	00940	3 0 6	

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli Name of Authorized Agent (Print) Chief Chemist Title

Signature

Nov 15, 1993

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07407

Page 1 of 2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD Mo.

REPORTING **CATEGORY**

0 0 2 1 0 1

9 1 0 9 3 5

2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETERS Pesticides and PCB's	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Aldrin Chlordane Dieldrin DDT Heptachlor Lindane PCB's	39330 39350 39380 39370 39410 39782 39516	0 1 0 9 1 5 5 0 1 2 4 0 6 5 1 0 0 4 7 0 1 4 0 7 7 5	* * * * * * * * * * * * * * * * * * * *
Toxaphene Purgeables Benzene	39400 34030		*
Carbon tetrachloride Chloroform Methylene Chloride Tetrachloroethylene Trichloroethylene	32102 32106 34423 34475 39180		*
Vinyl chloride Base/Neutrals and Acids		4_2 6	*
Benzidine Benzo(a)pyrene Bis(2-ethylhexyl) phthalate Hexachlorobenzene Hexachlorobutadiene N-nitrosodimethylamine	39120 34247 39100 39700 39702 34438	427 853 151 853 853 853 171	*

CERTIFICATE OF AUTHENTICITY

Arthur A. Martinelli Name of Authorized Agent (Print) Chief Chemist,

Title

Signature

Nov 15, 1993

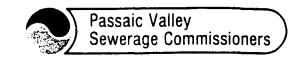
Laboratory Name: Priority One Testing Laboratory

Cert No. <u>09399</u>

 RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

DANIEL F. BECHT ROBERT M. BURKE , JR. THOMAS J. CIFELLI DOMINIC W. CUCCINELLO RAYMOND LUCHKO FRANK ORECHIO DONALD TUCKER COMMISSIONERS



600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951 CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

> GABRIEL M. AMBROSIO CHIEF COUNSEL

> > LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

T-VWY-007 .

5/89	NO	Division of	Water Resources	Fiolection			
•	DOMEST	C WASTEW					
	DISCHARGE PERMIT	NO. RE	PORTING PER		PORTING TEGORY		
	0002101	6 1	0 1 9	9 3	5 1	Page	2 of 2
FACILITY NAME	: Passaic Valley Sewera	ne Commissioner	<u>S</u>				
A. REPORT	ING CATEGORY INFO	RMATION					1
1. Permitte	d Wastewater Flow	(N	(GD)	· A1:		3 3	0_0
2. Industria	l Conribution	(%	of influent)	A2:			1 8
3. Average	Daily Septage Treated	(G	fallons/Day)	A3:		2 2	9 Q
B. INFORMATIO	ON ON SLUDGE PRODUCE	D IN TREATME	NT PROCESS				
1. Average	Total Solids of Sludge	(%	by weight)	B1:		4	5 6
1	Daily Sludge Production	•	allons/Day)	B2:		5 7 6	9 7
3. Average	Daily Sludge Production	(D	ry Tons/Day	В3:		1 0 9	7 3
**C. INFORM	ATION ON SLUDGE R	EMOVED FOR	ULTIMATE	MANAGEM	ENT		
1. Complete	ONLY If Liquid Sludge Is R					1 1	1
a. Total	Solids of Liquid Sludge		% by weight)	C1:			
b. Aver	age Daily Sludge Removal	(0	Gallons/Day	C2:			
2. Complete	ONLY If Dewatered Sludge	Is Removed				1 1	1
a. Total	Solids of Dewatered Sludge	(%	by weight)	C3:		4	5, 6
b. Com	plete ONE of the following:				1 1	1 1 1	1 1
i.	Average Daily Sludge Remo	val (G	allons/Day)	C4:			
	Total Solids of 2.b.i.	(%	by weight)	C5:			
ii.	Average Daily Sludge Remove	val (W	et Cu. Yds/Da	y) C6:			
iii.	Average Daily Sludge Remov	/al (W	et Tons/Day)	C7:		2 4	Q 4
3. Total Ave	erage Daily Sludge Removal	(D	ry Tons/Day)	C8:		1 0 9	7 3
4. pH of Slu	idge Removed	(St	andard Units)	C9:		_1	1 2
D. ULTIMATE	SLUDGE MANAGEME	NT SITE (See	Codes on Rever	rse)			
METHOD CODE	HAULER REGISTRY	FA	CILITY/OPERATIO)N		PERMIT NO	
				-	1 1 1	1 1 1	1 1 1
5	17244	UTOF	STAT	E			
	N REDUCTION INFORM	MATION (See C	odes and Comp	lete Reverse)		500.000	
METHOD CODE	FACILITY/OPER	ATION		PERMIT NO.		FOR DEP U	PFRP
D	PASSAIC	ALLEY		0 2 1 0 1 6	6		

CERTIFICATE	OF A	MITHEN'	TICITY
CEITHICAIL	OF F	40111111	

Arthur A.Martinelli **Chief Chemist** Name of Authorized Agent (Print) Title

Signature

11/16/93

_ Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. <u>07250</u>

r			
PATHOGEN REDUCTION METHOD CODE	(Appropriate - section	s must be completed)	
A. Anaerobic Digestion: or B. Aerobic Digestion: complete the following: 1. Percent Volatile Solids: a. Before Stabilization (as weight % of TS) b. After Stabilization (as weight % of TS) c. Percent Reduction (see equation) 2. Detention Time (Days) 3. Average Temperature (Degrees C)	UNIT 1	UNIT 2 UNIT 3	
C. Air Drying (Report on any beds emptied for the re	oort period)		
BED DATE SLUDGE LOADED Month Day Year 1.	DEPTH POURED Inches	DATE SLUDGE R Month Day	REMOVED Year
 Incineration Ocean Disposal Out of State Residual Not Classified as Sludge, Managed by Har Other (specify here: None Removed 	zardous or Waste Flow Re	egs)	
EOUATIONS			
A. Dry Tons = Gallons (wet) X Solid Content (of i) 240	ne gailons)		
B. Dry Tons = Cubic Yards (wet) X Solid Content (Y)			
y = 1.185 where solid content is = 1.265 where solid content is = 1.58 where solid content is 2 = 1.9 where solid content is gro	16% to 23% 24% to 29%		
C. Dry Tons = Tons (wet) X Solid Content (of the	wet tons)		
D. Volatile Solids Reduction = VS before VX before— (VS	X VS after X before X VS after)	100	
NOTE: The total and volatile solid contents in the above	ve equations must be extr	ressed as a decimal, for exam	mie:

NOTE: The total and volatile solid contents in the above equations must be expressed as a decumal, for example

1% Total Solids = .01

20% Total Solids = .20

T-VWX-008 '

New Jersey Department of Environmental Protection Division of Water Resources

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO. REPORTING Mo.

REPORTING PERIOD

REPORTING CATEGORY

0 0 2 1 0 1 6 0 9 1 9 9 3

FACILITY NAME: Passaic Valley Sev

Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETERS	STORET CODE	TOTAL PHASE	NONE DETECTED
<u>Metals</u>	CODE	(dry weight basis,	DETECTED
Arsenic	01002	_ 1 6 7	
Beryllium	01012	0 1 6	*
Cadmium	61527	1 4 3 0	
Chromium	61512	1 4 8 0 0	
Copper	61506	5 8 4 0 5	
Iron	01045	3 7 0 0	
Lead	61503	1 8 5 0	
Mercury	01260	0 7 0	
Molybdenum	01062	2 8 2 0	
Nickel	61515	4 5 8 5	
Selenium	61518	3 3 0	
Zinc	61509	9 3 5 5	
Selected Chemical	<u>Parameters</u>		
Total Nitrogen	00625	2 3 0 4 9	
Ammonia	71845	3 9 1	
Nitrate Nitrogen	71850	2 5 2	
Oil and Grease	00550	5 6 4 1 6	
PhenoIs	46000	1 0 0 7	
Phosphorus	00665	5 5 1 0	
Calcium	00916	1 7 6 8 1 2	
Magnesium	00927	2 8 0 4	
Potassium	00937	1 0 8 4	
Cyanide	00720	1 1 2 8	
Fluoride	00951	3 2 5	
Chloride	00940	4 5 8 0	

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli
Name of Authorized Agent (Print)

Chief Chemist

Title

Signature

-Nov 15, 1993 Date

Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. <u>07407</u>

Page 2 of 2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD Yr. Mo.

REPORTING **CATEGORY**

0 0 2 1 0 1 6

0 9 9 3 1

5

2

FACILITY NAME:

Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETERS	STORET	TOTAL PHASE	NONE DETECTED
Pesticides and PCB's	CODE	(dry weight basis,	DETECTED
Aldrin	39330	0009	*
Chlordane	39350	0 1 3 4	*
Dieldrin	39380	0 0 1 1	*
DDT	39370	0 0 5 6	*
Heptachlor	39410	0 0 0 4	*
Lindane	39782	0 0 1 2	*
PCB's	39516	0 6 7 1	*
Toxaphene	39400	1_3 4	*
<u>Purgeables</u>			
Benzene	34030	2 7 2	*
Carbon tetrachloride	32102	272	*
Chloroform	32106	272	*
Methylene Chloride	34423	2,72	*
Tetrachloroethylene	34475	2.72	*
Trichloroethylene	39180	2,72	*
Vinyl chloride	39175	5_44	*
Base/Neutrals and Acids			
Benzidine	39120	6_7 5	*
Benzo(a)pyrene	34247	1 3 5	*
Bis(2-ethylhexyl) phthalate	39100	3 3 4	
Hexachlorobenzene	39700	1 3 5	*
Hexachlorobutadiene	39702	1.35	*
N-nitrosodimethylamine	34438	2 7 0	*

CERTIFICATE OF AUTHENTICITY

Laboratory Name: Priority One Testing Laboratory

Arthur A. Martinelli Name of Authorized Agent (Print) Chief Chemist,

Title

Signature

Nov. 15, 1993

Cert No. <u>09399</u>

MONITORING REPORT - TRANSMITTAL SHEET Page 1 of 1 NJPDES NO. REPORTING PERIOD YR. MO. MO. 0,0,2,1,0,1,6 |1,1|9,3| THRU |1,1|9,3| Passaic Valley Sewerage Commissioners PERMITTEE: Name 600 Wilson Avenue Address Newark, New Jersey 07105 Passaic Valley Sewerage Commissioners FACILITY: Name 600 Wilson Avenue Address Essex Newark, N.J. 07105 (County) Telephone (201) 344-1800 * For reporting period 11/93 ** For reporting period 10/93 FORMS ATTACHED (Indicate Quantity of Each) **OPERATING EXCEPTIONS** NO YES SLUDGE REPORTS - SANITARY DYE TESTING T-VWX-007 T-VWX-008 TEMPORARY BYPASSING SLUDGE REPORTS - INDUSTRIAL DISINFECTION INTERRUPTION T-VWX-010A T-VWX-010B MONITORING MALFUNCTIONS WASTEWATER REPORTS UNITS OUT OF OPERATION T-VWX-012 T-VWX-013 T-VWX-011 OTHER GROUNDWATER REPORTS (Detail any "Yes" on reverse side in appropriate space.) VWX-015(A,B) VWX-016 VWX-017 NPDES DISCHARGE MONITORING REPORT NOTE: The "Hours Attended at Plant" on the reverse of this sheet must also be completed. EPA FORM 3320-1 AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. PRINCIPAL EXECUTIVE OFFICER or LICENSED OPERATOR **DULY AUTHORIZED REPRESENTATIVE** Phil Habrukowich Carmine T. Perrapato Name (Printed) Name (Printed) S-#3972 Executive Director NJ Title (Printed) Grade & Registry

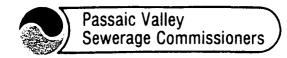
946430113

Signature

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

DANIEL F. BECHT ROBERT M. BURKE, JR. THOMAS J. CIFELLI DOMINIC W. CUCCINELLO RAYMOND LUCHKO FRANK ORECHIO DONALD TUCKER COMMISSIONERS



600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951
OPERATIONS DEPT. Fax: (201) 817-5709

CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO CHIEF COUNSEL

> LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

,	DOME: DISCHARGE PERI		EWATER SLU REPORTING PER		ORT PORTING	
			Mo.	Yr. CA	TEGORY	
FACILITY NAME:	0 0 2 1 0 Passaic Valley Sew		1 1 1 9	9 3	5 1	Page 2 of 2
	G CATEGORY IN				****	
1. Permitted \	Wastewater Flow		(MGD)	A1:		3 3 0 0
2. Industrial (Conribution		(% of influent)	A2:		1 8
3. Average Da	aily Septage Treated		(Gallons/Day)	A3:		2 3 7 7
B. INFORMATION	ON SLUDGE PROD	UCED IN TREAT	MENT PROCESS			
1. Average To	otal Solids of Sludge		(% by weight)	B1:		4 5 9
2. Average Da	ily Sludge Production		(Gallons/Day)	B2:		7 0 7 6 8
3. Average Da	aily Sludge Production		(Dry Tons/Day	В3:		1 3 5 4 3
	TION ON SLUDGE		OR ULTIMATE	MANAGEM	ENT	
-	NLY If Liquid Sludge	Is Removed	(% by weight)	C1:		1 1 1
	olids of Liquid Sludge		(% by weight) (Gallons/Day	C1: C2:	1 1	
J	e Daily Sludge Remova		(Gallois/Day	C2.	<u></u>	
•	ONLY If Dewatered Slu	•	(% by weight)	C3:		1/15/9
	olids of Dewatered Slu		(% by weight)	CJ.		4 3 3
-	ete ONE of the following	_	(Gallons/Day)	C4:		
	verage Daily Sludge R	emovai	(% by weight)	C5:	\	
	otal Solids of 2.b.i.	a m aval	(Wet Cu. Yds/Da		1 1	
	verage Daily Sludge Re		(Wet Cu. Tus/Da (Wet Tons/Day)	co. C7:		2 9 4 9
	verage Daily Sludge Re age Daily Sludge Remo		(Dry Tons/Day)	C8:		
4. pH of Sludg	-	vai	(Standard Units)	C9:		
		MENT CITE				1 1 2
METHOD	LUDGE MANAGE HAULER	IMENI SIIE (•		
CODE	REGISTRY		FACILITY/OPERATION	ON		PERMIT NO.
5	17244	OUTO	FSTAT	E		
L						
	REDUCTION INFO	DRMATION (S	ee Codes and Comp	plete Reverse)		
METHOD CODE	FACILITY/	OPERATION		PERMIT NO.		FOR DEP USE ONLY PSRP PFRP
D (PASSAIC	VALLE	Y 0	0 2 1 0 1 0	6	
CERTIFICATE	OF AUTHENTICIT	ſΥ	^	, ,	1	
Arthur A.Martine		Chief Chemist	(), I	ta Man	The state of the s	12/9/93
Name of Authorized		Title	Signature	- / / / / / / / / / / / / / / / / / / /	···· ···	_12/9/93 Date

Laboratory Name: Passaic Valley Sewerage Commissioners Cert No. 07250

946430115

PATHOGEN REDUCTION METHOD CODE	(Appropriate sections	must be completed)	
A. Anaerobic Digestion: or B. Aerobic Digestion: complete the following:			,
1. Percent Volatile Solids:	UNIT 1	UNIT 2 UNIT 3	
a. Before Stabilization (as weight % of TS)	ا لننا		
b. After Stabilization (as weight % of TS)			
c. Percent Reduction (see equation)			
2. Detention Time (Days)			
3. Average Temperature (Degrees C)			
C. Air Drying (Report on any beds emptied for the re	•		
BED DATE SLUDGE LOADED Month Day Year	DEPTH POURED Inches	DATE SLUDGE REMOVED Month Day Year	
1.	1 1 1		
2.	-1 1 1		
3.			
4.			
5.	1		
D. G. A. L. L. G. A. W. L. C.			
D. State Approved Lime Stabilization E. Thermal Treatment/Drying			
F. Phragmites			
G. Composing			
H. Other (specify here:I. None			
ULTIMATE SLUDGE MANAGEMENT METH	OD CODE		
Land Application at a NJPDES Permitted Site State Approved Distribution Permit			
3. Incineration			
4. Ocean Disposal			
5. Out of State6. Residual Not Classified as Sludge, Managed by Haz	randous as Wasta Flour Bas	_	
7. Other (specify here:	ardous of waste flow Reg	s. .)	
8. None Removed			
EQUATIONS			
	"		
A. Dry Tons = <u>Gallons (wet)</u> X <u>Solid Content (of the 240</u>	e gallonsi		
B. Dry Tons = Cubic Yards (wet) X Solid Content (c) (Y)	of the cubic yards)		
y = 1.185 where solid content is	less than 15%		
= 1.265 where solid content is			
= 1.58 where solid content is 2 = 1.9 where solid content is gre			
•			
C. Dry Tons = Tons (wet) X Solid Content (of the v		00	
D. Volatile Solids Reduction = VS before X VX before— (VS)		00	
NOTE: The total and volatile solid contents in the abov	e equations must be expres	sed as a decimal, for example:	
1% Total Sc	•	·	

1% Total Solids = .0120% Total Solids = .20 T-VV√X-008 5/89

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

 DISCHARGE PERMIT NO.
 REPORTING PERIOD Mo.
 REPORTING CATEGORY

 0 | 0 | 2 | 1 | 0 | 1 | 6 |
 1 | 0 | 1 | 9 | 9 | 3 |
 5 | 2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETERS <u>Metals</u>	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Arsenic	01002	1] 8 0	*
Beryllium	01012	0 3 6	*
Cadmium	61527	1 2 9 0	
Chromium	61512	1 1 6 8 0	
Copper	61506	4 5 6 6 5	
Iron	01045	3 1 7 0	
Lead	61503	1 6 3 5 0	
Mercury	01260		
Molybdenum	01062	2 9 1 0	
Nickel	61515	4 5 2 0	
Selenium	61518	3 6 4	*
Zinc	61509	6 5 8	
Selected Chemical	<u>Parameters</u>		
Total Nitrogen	00625	4 5 0 0 0	1 1
Ammonia	71845		
Nitrate Nitrogen	71850	2 4 7	
Oil and Grease	00550	4 3 8 6 0	
Phenols	46000	2 8 2 9	
Phosphorus	00665	7 7 1 0	
Calcium	00916	2 1 3 4 3 8	
Magnesium	00927	2 9 2 0	
Potassium	00937	1 1 9 5	
Cyanide	00720	1 9 4 7	
Fluoride	00951	1 4 7	
Chloride	00940	1 0 7 2 0	

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli Chief Chemist

Name of Authorized Agent (Print) Title

Signature

12/9/93

Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. 07407

T-VVVX-009 5/89

New Jersey Department of Environmental Protection Division of Water Resources

Page 2 of 2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD Mo.

3

REPORTING **CATEGORY**

0 0 2 1 0 1 6

1 9 9 5

2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETERS	STORET	TOTAL PHASE	NONE DETECTED
Pesticides and PCB's	CODE	(dry weight basis,	DETECTED
Aldrin	39330	0007	*
Chlordane	39350	0 1 0 7	*
Dieldrin	39380	0009	*
DDT	39370	0 0 4 5	*
Heptachlor	39410		*
Lindane	39782	0 0 1 0	*
PCB's	39516	0 5 3 5	<u> </u>
Toxaphene	39400	1 0 7	*
Purgeables			
Benzene	34030	2 6 8	*
Carbon tetrachloride	32102	2 6 8	*
Chloroform	32106	2 6 8	*
Methylene Chloride	34423	2,68	*
Tetrachloroethylene	34475	2-68	*
Trichloroethylene	39180	2.68	*
Vinyl chloride	39175	5.35	*
Base/Neutrals and Acids			
Benzidine	39120		*
Benzo(a)pyrene	34247	1 9 6	*
Bis(2-ethylhexyl) phthalate	39100	8 1 8	
Hexachlorobenzene	39700	1 9 6	*
Hexachlorobutadiene	39702	1_96	*
N-nitrosodimethylamine	34438	3 9 2	*

CERTIFICATE OF AUTHENTICITY

Laboratory Name: Priority One Testing Laboratory

Arthur A.Martinelli

Chief Chemist,

Name of Authorized Agent (Print)

Title

Signature

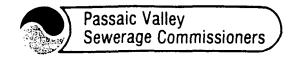
12/10/93 Date

Cert No. <u>09399</u>

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

DANIEL F. BECHT ROBERT M. BURKE , JR. THOMAS J. CIFELLI DOMINIC W. CUCCINELLO RAYMOND LUCHKO FRANK ORECHIO DONALD TUCKER COMMISSIONERS



600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951

OPERATIONS DEPT. Fax: (201) 817-5709

CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

> GABRIEL M. AMBROSIO CHIEF COUNSEL

> > LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which originated from our Zimpro process.

Ţ-YWX-007 5/89			ent of Environmental Protection of Water Resources	n		
•	DOMES		WATER SLUDGE	REPORT		
	DISCHARGE PERM		REPORTING PERIOD	REPORTING	-	
		1 1 1	Mo. Yr.	CATEGORY		2
	0 0 2 1 0	1 6 1	1 1 9 9 3	5	1 Page 1 of	
FACILITY NAMI			<u>iers</u>			
A. REPORT	ING CATEGORY INF	ORMATION			33000	
1. Permitte	d Wastewater Flow		(MGD)	A1:	L. I	l
2. Industria	l Conribution		(% of influent)	A2:	1 8	
3. Average	Daily Septage Treated	=	(Gallons/Day)	A3:	2 3 7 7	<u> </u>
B. INFORMA	TION ON SLUDGE P	RODUCED IN	TREATMENT PROC	ESS		
1. Average	Total Solids of Sludge		(% by weight)	B1:	5 6 2	!
2. Average	Daily Sludge Production		(Gallons/Day)	B2:	2 8 5 1 6	
3. Average	Daily Sludge Production		(Dry Tons/Day	В3:	6 6 7 2	
**C. INFORM	ATION ON SLUDGE	REMOVED FO	R ULTIMATE MANA	GEMENT		
1. Complete	ONLY If Liquid Sludge Is	Removed			, , ,	
a. Total	l Solids of Liquid Sludge		(% by weight)	C1:		
b. Aver	age Daily Sludge Removal		(Gallons/Day	C2:)
2. Complete	e ONLY If Dewatered Slud	ge Is Removed				
a. Total	Solids of Dewatered Sludg	ge	(% by weight)	C3:	5 6 2	
b. Com	plete ONE of the following	; :				
i.	Average Daily Sludge Res	moval	(Gallons/Day)	C4:		,
	Total Solids of 2.b.i.		(% by weight)	C5:		
ii.	Average Daily Sludge Ren	noval	(Wet Cu. Yds/Day)	C6:		
iii.	Average Daily Sludge Ren	noval	(Wet Tons/Day)	C7:	1 1 8 8	
3. Total Av	erage Daily Sludge Remov	al ((Dry Tons/Day)	C8:	6 6 7 2	
4. pH of Sl	udge Removed	((Standard Units)	С9:	5 9	
D. ULTIMATE	SLUDGE MANAGEM	MENT SITE (Se	e Codes on Reverse)			
METHOD	HAULER	•				
CODE	REGISTRY	j	FACILITY/OPERATION		PERMIT NO.	
5	17244	OUTOF	STATE			
E. PATHOGE	N REDUCTION INFO	RMATION (See	Codes and Complete Reve	erse)		
METHOD CODE	FACILITY/O		PERMIT I		FOR DEP USE ON	_Y
E	P A S S A I C	VALLEN	(0 1 6	PSRP PFRP	
		1				

CERTIFICATE	OF AU	CHENTICITY	1
--------------------	-------	-------------------	---

Arthur A.Martinelli	Chief Chemist	elhi /	Martinetto	_12/9/93
Name of Authorized Agent (Print)	Title	Signature		Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. <u>07250</u>

3/69			
PATHOGEN REDUCTION METHOD CODE	(Appropriate sectio	ns must be completed)	•
A. Anaerobic Digestion; or B. Aerobic Digestion; complete the following: 1. Percent Volatile Solids:	UNIT 1	UNIT 2 UNIT 3	
a. Before Stabilization (as weight % of TS)			
b. After Stabilization (as weight % of TS)			
c. Percent Reduction (see equation)			•
2. Detention Time (Days)			
3. Average Temperature (Degrees C)		لبنا لنبا	
C. Air Drying (Report on any beds emptied for the repo	on period)		
BED DATE SLUDGE LOADED Month Day Year	DEPTH POURED Inches	DATE SLUDGE REMOVED Month Day Year)
1.			
2.	- ا		
3.			
4.			
5.			
D. State Approved Lime Stabilization E. Thermal Treatment/Drying F. Phragmites G. Composting H. Other (specify here: I. None)	
ULTIMATE SLUDGE MANAGEMENT METHOR. 1. Land Application at a NIPDES Permitted Site 2. State Approved Distribution Permit 3. Incineration 4. Ocean Disposal 5. Out of State 6. Residual Not Classified as Sludge, Managed by Hazz 7. Other (specify here: 8. None Removed		Regs.	
EQUATIONS			
A. Dry Tons = Gallons (wet) X Solid Content (of the 240)	e gallons)		
B. Dry Tons = Cubic Yards (wet) X Solid Content (o (Y)			
y = 1.185 where solid content is 1 = 1.265 where solid content is 1			
= 1.58 where solid content is 24	4% to 29%		
= 1.9 where solid content is gre			
C. Dry Tons = Tons (wet) X Solid Content (of the w		V 100	
D. Volatile Solids Reduction = VS before X VX before— (VS)	VS after before X VS after)	X 100	

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

1% Total Solids = .01

20% Total Solids = .20

METALS AND SELECTED CHEMICAL PARAMETERS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD Mo.

REPORTING CATEGORY

0 0 2 1 0 1 6

0

9 9 3 5

2

FACILITY NAME:

Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Press (Wet Air Oxidized) Sludge)

PARAMETERS <u>Metals</u>	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Arsenic	01002	2 7 9	
Beryllium	01012	0 8 4	*
Cadmium	61527	5 7 5 5	
Chromium	61512	5 9 0 2 0	
Copper	61506	2 0 4 0	
Iron	01045	1 6 4 5 0	
Lead	61503	4 5 1 0 0	
Mercury	01260		
Molybdenum	01062	2 4 1 0	
Nickel	61515	8 9 0 0	
Selenium	61518	8 3 0	*
Zinc	61509	2 7 2 2	
Selected Chemical I	Parameters		
Total Nitrogen	00625	1 4 2 9 1	1 1
Ammonia	71845	7 3 7	
Nitrate Nitrogen	71850	3 7 1	
Oil and Grease	00550	1 8 8 5 8 1	
Phenois	46000	5 2 2 7	
Phosphorus	00665	2 0 0 7 0	
Calcium	00916	1 9 0 7 5	
Magnesium	00927	4 7 8 9	
Potassium	00937	7 4 5	
Cyanide	00720	1 0 8 1	
Fluoride	00951	1 1 2	
Chloride	00940	9 5 0	

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli Name of Authorized Agent (Print) **Chief Chemist**

Title

Signature

12/9/93

Date

Laboratory Name: Passaic Valley Sewerage Commissioners

Cert No. <u>07407</u>

Page 1 of 2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD Mo.

REPORTING CATEGORY

0 0 2 1 0 1 6

1 9 9 3 1

5

2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETERS Pesticides and PCB's	STORET CODE	TOTAL PHASE (dry weight basis,	NONE DETECTED
Aldrin Chlordane Dieldrin DDT	39330 39350 39380 39370	0 5 4 5 7 7 9 0 6 2 3 3 2 7	* * * *
Heptachlor Lindane PCB's Toxaphene	39410 39782 39516 39400	0 2 3 4 0 7 0 1 3 8 9 1 7 7 9	* *
Purgeables Benzene Carbon tetrachloride Chloroform	34030 32102 32106	2 1 9 2 1 9 2 1 9	*
Methylene Chloride Tetrachloroethylene Trichloroethylene Vinyl chloride	34423 34475 39180 39175	2, 1 9 2, 1 9 2, 1 9 4, 3 8	* * * *
Base/Neutrals and Acids			
Benzidine Benzo(a)pyrene Bis(2-ethylhexyl) phthalate Hexachlorobenzene Hexachlorobutadiene N-nitrosodimethylamine	39120 34247 39100 39700 39702 34438	1 6 9 3 3 8 2 3 9 3 3 8 3 3 8 6 7 7	* * * *

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli Name of Authorized Agent (Print)

Chief Chemist,

Title

Laboratory Name: Priority One Testing Laboratory

Signature

12/10/93

Cert No. 09399

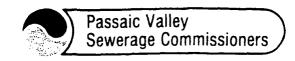
MONITORING REPORT - TRANSMITTAL SHEET

7	MONTONING REPORT		
ge 1 of 1	NJPDES NO.	REPORTING PERIOD	•
	0,0,2,1,0,1,6	[112]913] THRU [112]913]	
PERMITTEE:	NamePassaic Valley Sew	erage Commissioners	
	Address 600 Wilson Avenue		
	Newark, New Jersey	07105	
FACILITY:	Name Passaic Valley Sewe	erage Commissioners	
	Address 600 Wilson Avenue	Fagor	
	Newark, N.J. 07105	(County) Essex	
	Telephone (201) 344-1800	* For reporting p	period 12/93
FORMS ATTACH	HED (Indicate Quantity of Each)	OPERATING EXCEPTIONS	
SLUDGE REPORTS	S - SANITARY		YES NO
1 T-VWX-00	7 T-VWX-008 1 T-VWX-009	DYE TESTING	
* SLUDGE REPORTS	*	TEMPORARY BYPASSING	
		DISINFECTION INTERRUPTION	
T-VWX-01	0AT-VWX-010B	MONITORING MALFUNCTIONS	
WASTEWATER RE	PORTS	UNITS OUT OF OPERATION	
T-VWX-01	1 T-VWX-012 T-VWX-013	ОТНЕЯ	
GROUNDWATER R		(Detail any "Yes" on reverse side in appropriate space.)	
NPDES DISCHARG	E MONITORING REJORT	NOTE: The "Hours Attended at I	ant" on the
EPA FORM	1 3320-1	reverse of this sheet must also be co	ompleted.
AUTHENTICATI	of those individuals immediately submitted information is true, acc	t I have personally examined and amounted and all attachments and that, responsible for obtaining the informationary and complete. I am aware that remation including the possibility of fi	based on my inquiry tion, I believe the there are significant
LICENSED OPER	ATOR	PRINCIPAL EXECUTIVE OFFICER or DULY AUTHORIZED REPRESENTATIVE	/E
Name (Printed) _	Phil Habrukowich	Name (Printed) Carmine T. Pe	rrapato
Grade & Registry (NJ S-4 #3972	Title (Printed) Executive Dis	rector

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

DANIEL F. BECHT ROBERT M. BURKE , JR. THOMAS J. CIFELLI DOMINIC W. CUCCINELLO RAYMOND LUCHKO FRANK ORECHIO DONALD TUCKER COMMISSIONERS



600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951 CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO CHIEF COUNSEL

> LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which has been centrifuged and lime stabilized.

5/89 🗼		Divisio	n of Water Resources			
2	DOMES	TIC WAST	EWATER SLUD	GE REPORT		
	DISCHARGE PERM	IIT NO.	REPORTING PERIOD			
	101012110	11161	Mo. Yr.	1 1	1 1	Page 2 of 2
EACULTY NAAR	0 0 2 1 0	1 6	1 2 1 9 9	3 5		, ago
FACILITY NAME	E: Passaic Valley Sewi		oners	··		
		ORIVIATION	0.60%)	A1:	1	3 3 0 0
	d Wastewater Flow		(MGD)		_	
	l Conribution		(% of influent)	A2 :	1 1 1	1 8
3. Average	Daily Septage Treated		(Gallons/Day)	A3:		1 6 1 3
B. INFORMATION	ON ON SLUDGE PRODU	JCED IN TREAT	MENT PROCESS			1 41 0 4
1. Average	Total Solids of Sludge		(% by weight)	B1:		4 2 4
2. Average l	Daily Sludge Production		(Gallons/Day)	B2:	6	2 1 1 9
3. Average	Daily Sludge Production		(Dry Tons/Day	B3:	1	0 9 6 9
**C. INFORM	ATION ON SLUDGE	REMOVED F	OR ULTIMATE MA	ANAGEMENT		
1. Complete	ONLY If Liquid Sludge I	s Removed		•		1 1 1
a. Total	Solids of Liquid Sludge		(% by weight)	C1:		
b. Aver	age Daily Sludge Remova	I	(Gallons/Day	C2:		
2. Complete	e ONLY If Dewatered Slu	dge Is Removed				,
a. Total	Solids of Dewatered Slud	ge	(% by weight)	C3:		4 2 4
b. Com	plete ONE of the following	g:				
i.	Average Daily Sludge Re	moval	(Gallons/Day)	C4:		
	Total Solids of 2.b.i.		(% by weight)	C5:		
ii.	Average Daily Sludge Re	moval	(Wet Cu. Yds/Day)	C6:		
iii.	Average Daily Sludge Re		(Wet Tons/Day)	C7:		2 5 3 8
	erage Daily Sludge Remov		(Dry Tons/Day)	C8:	1 1	0 9 6 9
	idge Removed		(Standard Units)	C9:	<u></u>	1 1 1
) III TIMATE	SLUDGE MANAGE	MENT SITE	Sae Codes on Pewerse)			
METHOD	HAULER	MENT OFFE (see codes on reverse)			
CODE	REGISTRY		FACILITY/OPERATION		PE	RMIT NO.
5	17244	OUTO	FSTATE			
E. PATHOGE	N REDUCTION INFO	RMATION (S	ee Codes and Complete	Reverse)	Γ <u></u>	
METHOD CODE	FACILITY/C	PERATION	PER	MIT NO.	F	OR DEP USE ONLY PSRP PFRP
D	PASSALIC	VALLE	Y 0 0 2	1016		
	<u> </u>					

CERTIFIC	ATE OF	AUTH	ENTICITY

Arthur A.Martinelli Chief Chemist
Name of Authorized Agent (Print) Title

Signature

_1/12/94

Date

NOTE: The total and volatile solid contents in the above equations must be expressed as a decimal, for example:

VX before— (VS before X VS after)

1% Total Solids = .01

20% Total Solids = 20

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2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD Mo.

REPORTING CATEGORY

0 0 2 1 0 1 6

2 9 9 3 1

5

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Centrifuged (Lime Stabilized) Sludge

PARAMETERS	STORET	TOTAL PHASE	NONE
Pesticides and PCB's	CODE	(dry weight basis,	DETECTED
Aldrin	39330	0007	*
Chlordane	39350	0.098	*
Dieldrin	39380	0.008	*
DDT	39370	0 0 4 1	*
Heptachlor	39410	0003	*
Lindane	39782	0009	*
PCB's	39516	0_488	*
Toxaphene	39400	0 9 7 6	*
<u>Purgeables</u>			
Benzene	34030	2 9 0	*
Carbon tetrachloride	32102	2 9 0	*
Chloroform	32106	2 9 0	*
Methylene Chloride	34423	2,90	*
Tetrachloroethylene	34475	2.90	*
Trichloroethylene	39180	2.90	*
Vinyl chloride	39175	5_79	*
ase/Neutrals and Acids			
Benzidine	39120	6 7 6	*
Benzo(a)pyrene	34247	5 8 8	*
Bis(2-ethylhexyl) phthalate	39100	1 0 1	
Hexachlorobenzene	39700	5 8 8	*
Hexachlorobutadiene	39702	5.88	*
N-nitrosodimethylamine	34438	1 7 5	*

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli

Chief Chemist,

Name of Authorized Agent (Print)

Signature

1/11/94

Cert No. <u>09399</u>

Laboratory Name: Priority One Testing Laboratory

946430128

Passaic Valley
Sewerage Commissioners

RONALD W. GIACONIA CHAIRMAN

JAMES KRONE VICE CHAIRMAN

DANIEL F. BECHT ROBERT M. BURKE , JR. THOMAS J. CIFELLI DOMINIC W. CUCCINELLO RAYMOND LUCHKO FRANK ORECHIO DONALD TUCKER COMMISSIONERS 600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 Fax: (201) 344-2951 CARMINE T. PERRAPATO EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO CHIEF COUNSEL

> LOUIS LANZILLO CLERK

This domestic wastewater sludge report represents dewatered cake which originated from our Zimpro process.

DOMESTIC WAD DISCHARGE PERMIT NO.	ASTEWATER SLUDGE REPORTING PERIOD	REPORT REPORTI CATEGO	
FACILITY NAME: Passaic Valley Sewerage Com	Mo. Yr. 1 2 1 9 9 3	1 - 7	Page 1 of 2
A. REPORTING CATEGORY INFORMATI			
1. Permitted Wastewater Flow	(MGD)	A1:	3 3 0 0
2. Industrial Conribution	(% of influent)	A2:	18
3. Average Daily Septage Treated	(Gallons/Day)	A3:	1 6 1 3
B. INFORMATION ON SLUDGE PRODUC	ED IN TREATMENT PRO	CESS	
1. Average Total Solids of Sludge	(% by weight)	B 1:	5 4 8
2. Average Daily Sludge Production	(Gallons/Day)	B2:	3 2 4 7 3
3. Average Daily Sludge Production	(Dry Tons/Day	В3:	7 4 1 7
**C. INFORMATION ON SLUDGE REMOV	ED FOR ULTIMATE MAN	AGEMENT	
1. Complete ONLY If Liquid Sludge Is Removed	(m l	C1 .	} }
a. Total Solids of Liquid Sludge	(% by weight)	C1:	
b. Average Daily Sludge Removal	(Gallons/Day	C2:	
2. Complete ONLY If Dewatered Sludge Is Remo			ا جا ما ما
a. Total Solids of Dewatered Sludge	(% by weight)	C3:	5 4 8
b. Complete ONE of the following:			
i. Average Daily Sludge Removal	(Gallons/Day)	C4:	
Total Solids of 2.b.i.	(% by weight)	C5:	<u> </u>
ii. Average Daily Sludge Removal	(Wet Cu. Yds/Day)	C6:	
iii. Average Daily Sludge Removal	(Wet Tons/Day)	C7:	1 3 5 3
3. Total Average Daily Sludge Removal	(Dry Tons/Day)	C8:	7 4 1 7
4. pH of Sludge Removed	(Standard Units)	C9:	5, 5
D. ULTIMATE SLUDGE MANAGEMENT SI	TE (See Codes on Reverse)		
METHOD HAULER CODE REGISTRY	FACILITY/OPERATION		PERMIT NO.
5 17244 OUT	OFSTATE		
E. PATHOGEN REDUCTION INFORMATIO	N (See Codes and Complete Re-	verse)	
METHOD CODE FACILITY/OPERATION	PERMIT	NO.	FOR DEP USE ONLY PSRP PFRP
E PASSAIC VAL	LEY 0021	0 1 6	
CERTIFICATE OF AUTHENTICITY	A = 4 = 6		1
Arthur A.Martinelli Chief Chen	nist William 1	Me Tin to	1/12/94
Name of Authorized Agent (Print) Title	Signature	· · · · · · · · · · · · · · · · · · ·	Date

Laboratory Name: Passaic Valley Sewerage Commissioners Cert No. 07250

PATHOGEN REDUCTION METHOD CODE (Appropriate sections must be completed)
A. Anaerobic Digestion; or
B. Aerobic Digestion: complete the following:
1. Percent Volatile Solids: UNIT 1 UNIT 2 UNIT 3
a. Before Stabilization (as weight % of TS)
b. After Stabilization (as weight % of TS)
c. Percent Reduction (see equation)
2. Detention Time (Days)
3. Average Temperature (Degrees C)
C. Air Drying (Report on any beds emptied for the report period)
BED DATE SLUDGE LOADED DEPTH POURED DATE SLUDGE REMOVED
Month Day Year Inches Month Day Year
2.
3.
4.
5.
D. State Approved Lime Stabilization
E. Thermal Treatment/Drying
F. Phragmites G. Composting
H. Other (specify here:
I. None
THE STATE OF MANAGEMENT METHOD CODE
ULTIMATE SLUDGE MANAGEMENT METHOD CODE
Land Application at a NJPDES Permitted Site State Approved Distribution Permit
3. Incineration
4. Ocean Disposal
5. Out of State 6. Residual Not Classified as Sludge, Managed by Hazardous or Waste Flow Regs.
7. Other (specify here:
8. None Removed
EOUATIONS
A. Dry Tons = Gallons (wet) X Solid Content (of the gallons) 240
B. Dry Tons = Cubic Yards (wet) X Solid Content (of the cubic yards) (Y)
y = 1.185 where solid content is less than 15%
= 1.265 where solid content is 16% to 23% = 1.58 where solid content is 24% to 29%
= 1.9 where solid content is greater than 30%
C. Dry Tons = Tons (wet) X Solid Content (of the wet tons)
D. Volatile Solids Reduction = VS before X VS after X 100
VX before X VS after)
• •

1% Total Solids = .01 20% Total Solids = .20

Page 1 of 2

TOXIC ORGANIC COMPOUNDS REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD Mo.

REPORTING CATEGORY

0 0 2 1 0 1

9 2 1 9 3

5

2

FACILITY NAME: Passaic Valley Sewerage Commissioners

SLUDGE SAMPLING LOCATION: Filter Pressed (Wet Air Oxidized) Sludge

PARAMETERS	STORET	TOTAL PHASE	NONE
Pesticides and PCB's	CODE	(dry weight basis,	DETECTED
Aldrin	39330	0 4 2 4	*
Chlordane	39350	6.06	*
Dieldrin	39380	0 4 8 5	*
DDT	39370	2 5 5	*
Heptachlor	39410	0 1 8 2	*
Lindane	39782	0.545	*
PCB's	39516	303	*
Toxaphene	39400	606	*
Purgeables			
Benzene	34030	2 2 0	*
Carbon tetrachloride	32102	2 2 0	*
Chloroform	32106	220	*
Methylene Chloride	34423	2,20	*
Tetrachloroethylene	34475	2.20	*
Trichloroethylene	39180	2.20	*
Vinyl chloride	39175	4.39	*
Sase/Neutrals and Acids			
Benzidine	39120	4 0 4 _	*
Benzo(a)pyrene	34247	351	*
Bis(2-ethylhexyl) phthalate	39100	1 1 5	
Hexachlorobenzene	39700	3 5 1	*
Hexachlorobutadiene	39702	35.1	*
N-nitrosodimethylamine	34438	703	*

CERTIFICATE OF AUTHENTICITY

Arthur A.Martinelli Name of Authorized Agent (Print) Chief Chemist,

Signature

1/11/94 Date

Laboratory Name: Priority One Testing Laboratory

Cert No. <u>09399</u>